

Medical Policy:

Gastric Electrical Stimulation

POLICY NUMBER	LAST REVIEW
MG.MM.SU.57C4aC3	February 9, 2024

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The treating physician or primary care provider must submit to EmblemHealth, or ConnectiCare, as applicable (hereinafter jointly referred to as “EmblemHealth”), the clinical evidence that the member meets the criteria for the treatment or surgical procedure. Without this documentation and information, EmblemHealth will not be able to properly review the request preauthorization or post-payment review. The clinical review criteria expressed below reflects how EmblemHealth determines whether certain services or supplies are medically necessary. This clinical policy is not intended to pre-empt the judgment of the reviewing medical director or dictate to health care providers how to practice medicine. Health care providers are expected to exercise their medical judgment in rendering appropriate care. Health care providers are expected to exercise their medical judgment in rendering appropriate care.

EmblemHealth established the clinical review criteria based upon a review of currently available clinical information (including clinical outcome studies in the peer reviewed published medical literature, regulatory status of the technology, evidence-based guidelines of public health and health research agencies, evidence-based guidelines and positions of leading national health professional organizations, views of physicians practicing in relevant clinical areas, and other relevant factors). EmblemHealth expressly reserves the right to revise these conclusions as clinical information changes and welcomes further relevant information. Each benefit program defines which services are covered. The conclusion that a particular service or supply is medically necessary does not constitute a representation or warranty that this service or supply is covered and/or paid for by EmblemHealth, as some programs exclude coverage for services or supplies that EmblemHealth considers medically necessary.

If there is a discrepancy between this guideline and a member's benefits program, the benefits program will govern. Identification of selected brand names of devices, tests and procedures in a medical coverage policy is for reference only and is not an endorsement of any one device, test or procedure over another. In addition, coverage may be mandated by applicable legal requirements of a state, the Federal Government or the Centers for Medicare & Medicaid Services (CMS) for Medicare and Medicaid members. All coding and web site links are accurate at time of publication.

EmblemHealth may also use tools developed by third parties, such as the MCG™ Care Guidelines, to assist us in administering health benefits. The MCG™ Care Guidelines are intended to be used in connection with the independent professional medical judgment of a qualified health care provider and do not constitute the practice of medicine or medical advice. EmblemHealth Services Company, LLC, has adopted this policy in providing management, administrative and other services to EmblemHealth Plan, Inc., EmblemHealth Insurance Company, EmblemHealth Services Company, LLC, and Health Insurance Plan of Greater New York (HIP) related to health benefit plans offered by these entities. ConnectiCare, an EmblemHealth company, has also adopted this policy. All of the aforementioned entities are affiliated companies under common control of EmblemHealth Inc.

Definition

Gastric electrical stimulation (GES) has been developed as an alternative treatment for refractory gastroparesis. The device consists of 4 components: the implanted pulse generator, 2 intramuscular stomach leads, a stimulator programmer and a memory cartridge. The leads are implanted surgically using an open or laparoscopic technique and are connected to the pulse generator that is implanted in a subcutaneous pouch. The device delivers timed impulses to the gastric muscles that are intended to stimulate gastric myoelectric activity, with the goal of improving stomach emptying and relieving the symptoms of nausea and vomiting.

GES has also been proposed as an alternative to bariatric surgery for the treatment of obesity. The technique for implantation of the device is the same for treating gastroparesis but utilizes different stimulation parameters and a different location for placement of electrodes on the stomach wall. GES in the obese patient is thought to induce early satiety, but it is not known whether this is caused by stimulation of the nerves, inhibition of hormones or stimulation of the stomach muscle itself. (See Limitations/Exclusions)

Guideline

GES is considered medically necessary for the treatment of chronic, intractable (drug-refractory) nausea and vomiting secondary to gastroparesis of diabetic or idiopathic etiology.

The following criteria must be met:

1. Significantly delayed gastric emptying as evidenced by standard scintigraphic imaging of solid food
2. Member is refractory or intolerant to both:
 - [Prokinetic medications](#) (2 out of 3 classes)
 - [Antiemetic medications](#) (2 out of 3)
3. Significantly poor nutritional status, as evidenced by weight loss of 10% of body weight (for height and age in comparison with pre-illness weight)

Table 1: Prokinetic Medications

Class	Common Examples
Cholinergic Agonists	dexpanthenol (Ilopan®), bethanechol (Urecholine®)
Motolin receptor agonists	Erythromycin
Dopamine receptor antagonists	metoclopramide (Reglan®)

Table 2: Antiemetic Medications

Class	Common Examples
Antihistamines	diphenhydramine (Benadryl®), dimenhydrinate (Dramamine®), meclizine (Antivert®), hydroxyzine (Vistaril®), trimethobenzamide (Tigan®)
Serotonin (5HT3) receptor antagonists	ondansetron (Zofran®), granisetron (Kytril®), dolasetron (Anzemet®)
Dopamine receptor antagonists	Metoclopramide (Reglan®), perphenazine (Trilafon®), prochlorperazine (Compazine®), promethazine (Phenergan®), thiethylperazine (Torecan®), cyclizine (Marezine®)

Limitations and Exclusions

1. GES is not considered medically necessary for gastrointestinal dysmotility disorders other than gastroparesis, obesity (or any other indication not listed above) due to insufficient evidence of therapeutic value.
2. The Medtronic Enterra® Therapy System, a high frequency electronic device, is currently FDA approved under the FDA’s Humanitarian Device Exemption (HDE) program. No other GES system for treating gastroparesis has been approved to date. Therefore, requests for alternate GES systems (e.g., gastric pacing, neural gastric electrical stimulation) will be denied as not medically necessary due to insufficient evidence of therapeutic value.

Procedure Codes

43647	Laparoscopy, surgical; implantation or replacement of gastric neurostimulator electrodes, antrum
43648	Laparoscopy, surgical; revision or removal of gastric neurostimulator electrodes, antrum
43881	Implantation or replacement of gastric neurostimulator electrodes, antrum, open
43882	Revision or removal of gastric neurostimulator electrodes, antrum, open
64590	Insertion or replacement of peripheral or gastric neurostimulator pulse generator or receiver, direct or inductive coupling
64595	Revision or removal of peripheral or gastric neurostimulator pulse generator or receiver
95980	Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient measurements) gastric neurostimulator pulse generator/transmitter; intraoperative, with programming
95981	Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient measurements) gastric neurostimulator pulse generator/transmitter; subsequent, without reprogramming
95982	Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient measurements) gastric neurostimulator pulse generator/transmitter; subsequent, with reprogramming
L8679	Implantable neurostimulator, pulse generator, any type
L8680	Implantable neurostimulator electrode, each
L8681	Patient programmer (external) for use with implantable programmable neurostimulator pulse generator, replacement only
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, nonrechargeable, includes extension
L8687	Implantable neurostimulator pulse generator, dual array, rechargeable, includes extension
L8688	Implantable neurostimulator pulse generator, dual array, nonrechargeable, includes extension
L8689	External recharging system for battery (internal) for use with implantable neurostimulator, replacement only

References

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17. Specialty-matched clinical peer review.

Revision History

Company(ies)	DATE	REVISION
EmblemHealth ConnectiCare	Jan. 8, 2021	Changed decrease of “≤ 90% of normal body weight” (as evidence of significantly poor nutritional status) to “weight loss of 10% of body weight”
ConnectiCare	Dec. 9, 2019	ConnectiCare adopts the clinical criteria of its parent corporation EmblemHealth