



Qualified Health Plans offered in North Carolina by CareSource North Carolina Co., d/b/a CareSource

MEDICAL POLICY STATEMENT North Carolina Marketplace

Policy Name & Number	Date Effective
Peroral Endoscopic Myotomy (POEM) NC-MP-MM-1436	05/01/2023-04/30/2024
Policy Type	
MEDICAL	

Medical Policy Statement prepared by CareSource and its affiliates are derived from literature based on and supported by clinical guidelines, nationally recognized utilization and technology assessment guidelines, other medical management industry standards, and published MCO clinical policy guidelines. Medically necessary services include, but are not limited to, those health care services or supplies that are proper and necessary for the diagnosis or treatment of disease, illness, or injury and without which the patient can be expected to suffer prolonged, increased or new morbidity, impairment of function, dysfunction of a body organ or part, or significant pain and discomfort. These services meet the standards of good medical practice in the local area, are the lowest cost alternative, and are not provided mainly for the convenience of the member or provider. Medically necessary services also include those services defined in any Evidence of Coverage documents, Medical Policy Statements, Provider Manuals, Member Handbooks, and/or other policies and procedures.

Medical Policy Statements prepared by CareSource and its affiliates do not ensure an authorization or payment of services. Please refer to the plan contract (often referred to as the Evidence of Coverage) for the service(s) referenced in the Medical Policy Statement. If there is a conflict between the Medical Policy Statement and the plan contract (i.e., Evidence of Coverage), then the plan contract (i.e., Evidence of Coverage) will be the controlling document used to make the determination. According to the rules of Mental Health Parity Addiction Equity Act (MHPAEA), coverage for the diagnosis and treatment of a behavioral health disorder will not be subject to any limitations that are less favorable than the limitations that apply to medical conditions as covered under this policy.

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A. Subject

Peroral Endoscopic Myotomy (POEM)

B. Background

Achalasia is a rare esophageal disorder that affects about 1 in every 100,000 people. The major symptom of achalasia is usually difficulty with swallowing. Most people are diagnosed between the ages of 25 and 60 years. Achalasia occurs when nerves in the esophagus become damaged. As a result, the esophagus becomes paralyzed and dilated over time and eventually loses the ability to squeeze food down into the stomach. The term “achalasia” actually means “failure to relax.”

Although the condition cannot be cured, the symptoms can usually be controlled with treatment. Treatments for achalasia include oral medications, dilation or stretching of the esophagus, surgery (open and laparoscopic), endoscopic surgery, and injection of muscle-relaxing medicines (botulinum toxin) directly into the esophagus.

Peroral endoscopic myotomy (POEM) is an endoscopic procedure developed in Japan. It is performed with the patient under general anesthesia. POEM differs from traditional laparoscopic surgery, which involves the complete division of both the longitudinal and circular lower esophageal muscle layers. The POEM procedure is performed in 4 steps: 1) mucosal incision/entry into the submucosa, 2) creation of a submucosal tunnel, 3) myotomy, and 4) closure of the mucosal incision. Studies suggest that POEM can achieve results comparable to or even better than those of pneumatic dilation and surgical myotomy with similar safety. However, POEM is a newer procedure, and knowledge of its long-term outcome is limited.

POEM is a form of natural orifice transluminal endoscopic surgery. The procedure is performed perorally without any incisions in the chest or abdomen. The advantage of this approach is to reduce procedure-related pain and return patients to regular activities sooner than surgeries requiring external incisions.

C. Definitions

- **Achalasia** - A rare disorder making it difficult for food and liquid to pass from the swallowing tube connecting the mouth and stomach. In achalasia, nerve cells in the esophagus degenerate. As a result, the lower end of the esophagus, the lower esophageal sphincter (LES), fails to open to allow food into the stomach, leading to complications such as coughing, choking, aspiration pneumonia, ulceration, and weight loss. There are three different achalasia types, referred to as Type 1, Type 2, and Type 3.
 - **Type 1** - Type 1 achalasia is characterized by minimal esophageal pressurization. This type is characterized by the incomplete relaxation of the LES, a lack of mobility in terms of contraction and relaxation, and a small amount of pressure built up in the esophagus.
 - **Type 2** - Type 2 achalasia is indicated by esophageal compression. This type of achalasia is more severe and characterized by a more massive compression in the esophagus, often caused by the failure to relax and the build-up of pressure in the esophagus, typically from food.

- **Type 3** - Type 3 achalasia defines achalasia with spasms that result in sudden, abnormal squeezing of the esophagus and the LES. This type of achalasia is the most severe and can also elicit the most severe symptoms, such as severe chest pains that may mimic those of a heart attack and spasms severe enough to wake a person from sleep.
- **Eckardt Symptom Score** - The grading system most frequently used for the evaluation of symptoms, stages, and efficacy of achalasia treatment, attributing points (0 to 3 points) for four symptoms of the disease (dysphagia, regurgitation, chest pain, and weight loss) with scores ranging from zero (0) to twelve (12).
- **Gastroesophageal Reflux Disease (GERD)** - A chronic disorder that occurs when stomach bile or acid flows into the esophagus and irritates the lining.
- **Laparoscopic Heller Myotomy (LHM)** - A laparoscopic, minimally invasive, surgical procedure used to treat achalasia.
- **Peroral Endoscopic Myotomy Procedure (POEM)** - An endoscopic technique that emerged in the past decade as a minimally invasive management option for the treatment of achalasia.
- **Pneumatic Balloon Dilation (PD)** – An endoscopic therapy for achalasia during which an air-filled cylinder-shaped balloon disrupts the muscle fibers of the lower esophageal sphincter.

D. Policy

- I. CareSource considers the POEM procedure to be medically necessary when **ALL** of the following clinical criteria are met:
 - A. The individual is 18 years of age or older,
 - B. Presence of a diagnosis of primary achalasia, types I, II, or III,
 - C. Patient has tried and failed conventional therapy, including pneumatic dilation or is not a surgical candidate for Heller's myotomy,
 - D. Eckardt symptom score is greater than three (3), and
 - E. There is no history of previous open surgery of the stomach or esophagus.
- II. Peroral endoscopic myotomy (POEM) for any other indication is considered experimental, investigational and unproven.
- III. Contraindications
The following is a list of contraindications for this procedure:
 - A. Severe erosive esophagitis
 - B. Significant coagulation disorders
 - C. Liver cirrhosis with portal hypertension
 - D. Severe pulmonary disease
 - E. Esophageal malignancy
 - F. Prior therapy that may compromise the integrity of the esophageal mucosa or lead to submucosal fibrosis, including recent esophageal surgery, radiation, endoscopic mucosal resection, or radiofrequency ablation.

IV. Previous therapies for achalasia, such as PD, botulinum toxin injection, or LHM, are not contraindications to POEM.

V. Patients receiving POEM should be made aware and considered high risk to develop reflux esophagitis and will need to be advised of management considerations prior to undergoing the procedure.

E. Conditions of Coverage
NA

F. Related Policies/Rules
NA

G. Review/Revision History

DATE		ACTION
Date Issued	02/15/2023	New Policy
Date Revised		
Date Effective	05/01/2023	
Date Archived	04/30/2024	This Policy is no longer active and has been archived. Please note that there could be other Policies that may have some of the same rules incorporated and CareSource reserves the right to follow CMS/State/NCCI guidelines without a formal documented Policy

H. References

1. Aiolfi A, Bona D, Riva CG, et al. Systematic review and bayesian network meta-analysis comparing laparoscopic Heller myotomy, pneumatic dilatation, and peroral endoscopic myotomy for esophageal achalasia. J Laparoendosc Adv Surg Tech A. Epub ahead of print. July 31, 2019. Accessed January 23, 2023 from www.ncbi.nlm.nih.gov.
2. CMS. Local Coverage Determination (L38747) - Peroral Endoscopic Myotomy (POEM). (Effective 02/28/2021), Accessed January 23, 2023 from www.cms.gov.
3. Hayes Inc: Comparative Effectiveness Review of Peroral Endoscopic Myotomy for treatment of Esophageal Achalasia (December 3, 2019). Accessed January 23, 2023 from www.evidence.hayesinc.com.
4. Khashab MA, Vela MF, Thosani N, Agrawal D, Buxbaum JL, Fehmi SM, Fishman DS, Gurudu SR, Jamil LH, Jue TL, Kannadath BS. ASGE guideline on the management of achalasia. Gastrointestinal endoscopy. 2020 Feb 1;91(2):213-27. Accessed January 23, 2023 from www.ncbi.nlm.nih.gov.
5. Khashab MA, Kumbhari V, Tieu AH et al. *Peroral endoscopic myotomy achieves similar clinical response but incurs lesser charges compared to robotic Heller myotomy*. Published April 2017. Accessed January 23, 2023 from www.ncbi.nlm.nih.gov.
6. Meng F, Li P, Wang Y, Ji M, Wu Y, Yu L, Niu Y, Lv F, Li W, Li W, Zhai H. Peroral endoscopic myotomy compared with pneumatic dilation for newly diagnosed achalasia. Surgical endoscopy. 2017 Nov;31(11):4665-72
7. Patel, Dhyanesh A et al. An Overview of Achalasia and Its Subtypes.

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

- Gastroenterology & Hepatology vol. 13,7 (2017)- 411-421.
8. Schneider AM, Louie BE, Warren HF, Farivar AS, Schembre DB, Aye RW. A matched comparison of per oral endoscopic myotomy to laparoscopic Heller myotomy in the treatment of achalasia. *Journal of Gastrointestinal Surgery*. 2016 Nov;20(11):1789-96. Accessed January 23, 2023 from www.pubmed.ncbi.nlm.nih.gov.
 9. UptoDate. Achalasia: Pathogenesis, clinical manifestations, and diagnosis (February 19, 2020.) Accessed January 23, 2023 from www.uptodate.com.
 10. Vaezi MF, Pandolfino JE, Yadlapati RH, Greer KB, Kavitt RT. ACG Clinical guidelines: Diagnosis and Management of Alchalasia: *Official journal of the American College of Gastroenterology ACG*. Published September 2020 Volume 115 Issue p1393-1411. Accessed January 23, 2023 from www.journals.lww.com.

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