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Corporate Medical Policy

Cryoablation, Radiofrequency Ablation, and Laser Ablation for Treatment of Chronic Rhinitis

File Name: cryoablation radiofrequency ablation and laser ablation for treatment of chronic rhinitis

Origination: 10/2021 **Last Review:** 8/2023

Description of Procedure or Service

Ablation therapy is proposed as an alternative to medical management for patients with chronic rhinitis symptoms. Ablation therapy includes cryoablation (also known as cryosurgical ablation, cryosurgery, or cryotherapy), radiofrequency ablation, and laser ablation. Ablation therapy is thought to correct the imbalance of autonomic input to the nasal mucosa thereby reducing nasal antigen responses and vascular hyperreactivity.

Medical management is the standard of care for chronic rhinitis. Surgical options have been investigated for patients with chronic rhinitis refractory to multiple medical therapies. Ablation therapy is proposed as an alternative to medical management for patients with chronic rhinitis symptoms. Ablation therapy includes cryoablation (also known as cryosurgical ablation, cryosurgery, or cryotherapy), radiofrequency ablation, and laser ablation. Ablation therapy is thought to correct the imbalance of autonomic input to the nasal mucosa, thereby reducing nasal antigen responses and vascular hyperreactivity.

Regulatory Status

In February 2019, the Clarifix® device (Stryker) was cleared for use in adults with chronic rhinitis through the 510(k) process (K190356). Clearance was based on substantial equivalence to the predicate device, ClariFix (K162608). The only modification to the subject device was an update to the indications for use to include adults with chronic rhinitis.

In December 2019, the RhinAerTM stylus (Aerin Medical) was cleared by the FDA through the 510(k) process as a tool to treat chronic rhinitis (K192471). Clearance was based on equivalence in design and intended use of a predicate device, the InSeca ARC Stylus (K162810). The RhinAer stylus includes modification of the InSeca ARC stylus shaft components and flexibility.

There are currently no laser ablation devices with FDA clearance for treatment of chronic rhinitis.

Related Policies

Surgical Treatment of Sinus Disease Balloon Ostial Dilation (Balloon Sinuplasty)

***Note: This Medical Policy is complex and technical. For questions concerning the technical language and/or specific clinical indications for its use, please consult your physician.

Policy

Cryoablation, radiofrequency ablation, and laser ablation for treatment of chronic rhinitis (allergic or nonallergic) is considered investigational for all applications. **BCBSNC does not provide coverage for investigational services or procedures.**

Benefits Application

This medical policy relates only to the services or supplies described herein. Please refer to the Member's Benefit Booklet for availability of benefits. Member's benefits may vary according to benefit design; therefore member benefit language should be reviewed before applying the terms of this medical policy.

When Cryoablation, Radiofrequency Ablation, and Laser Ablation for Treatment of Chronic Rhinitis is covered

Not applicable.

When Cryoablation, Radiofrequency Ablation, and Laser Ablation for Treatment of Chronic Rhinitis is not covered

Cryoablation for chronic rhinitis (allergic or nonallergic) is considered investigational.

Radiofrequency ablation for chronic rhinitis (allergic or nonallergic) is considered investigational.

Laser ablation for chronic rhinitis (allergic and non allergic) is considered investigational.

Policy Guidelines

For individuals with chronic rhinitis who receive cryoablation, the evidence includes a randomized controlled trial (RCT), nonrandomized studies and a systematic review of nonrandomized trials. Relevant outcomes are symptoms, change in disease status, quality of life, and treatment-related morbidity. Three single-arm, open-label studies enrolling a total of 149 patients reported improvements from baseline in patient-reported symptom scores up to one year. Sustained improvement for up to two years was observed in one study, however only 62 of 98 patients enrolled in the longer-term follow-up phase. In the largest study, there were two serious procedure-related adverse events (2.0%), and 77.8% of patients who responded to a postprocedure questionnaire reported some degree of pain or discomfort. Study limitations, including lack of a control group and high loss to follow-up, preclude drawing conclusions from this body of evidence. The RCT used a sham control group, and follow-up was limited to three months. Randomized controlled trials directly comparing cryoablation with standard medical management and with longer follow-up are needed. A systematic review of 15 nonrandomized studies reported improvements with cryoablation; however, only one study used an approved device and validated outcome measuring, limiting conclusions from this systematic review. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

For individuals with chronic rhinitis who receive radiofrequency ablation, the evidence includes an RCT and two nonrandomized study. Relevant outcomes are symptoms, change in disease status, quality of life, and treatment-related morbidity. Results from the RCT suggest that radiofrequency ablation is more effective than sham ablation in improving short-term reflective Total Nasal Symptom Score (rTNSS) scores. Results from nonrandomized, uncontrolled studies also found radiofrequency ablation associated with improvements in rTNSS scores at time points up to 2 years and

in symptom-related quality of life up to 6 months. Randomized controlled trials with a clearly defined patient population directly comparing radiofrequency ablation with medical management and with follow-up for active and control groups ≥ 6 months are needed to confirm the efficacy of radiofrequency ablation for treatment of chronic rhinitis. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

Evidence on laser ablation for chronic rhinitis is limited to a single small nonrandomized study with three months followup. Relevant outcomes are symptoms, change in disease status, quality of life, and treatment-related morbidity. Although laser ablation reduced rTNSS scores, additional studies are needed to determine the efficacy and safety of laser ablation for treatment of chronic rhinitis. Randomized controlled trials with a clearly defined patient population directly comparing laser ablation with medical management and with follow-up for active and control groups ≥6 months are needed to confirm the efficacy of laser ablation for treatment of chronic rhinitis. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

Billing/Coding/Physician Documentation Information

This policy may apply to the following codes. Inclusion of a code in this section does not guarantee that it will be reimbursed. For further information on reimbursement guidelines, please see Administrative Policies on the Blue Cross Blue Shield of North Carolina web site at www.bcbsnc.com. They are listed in the Category Search on the Medical Policy search page.

Applicable service codes: 30999, 30117, 31242, 31243, 31299

Diagnoses: J30.0 - J31.0

BCBSNC may request medical records for determination of medical necessity. When medical records are requested, letters of support and/or explanation are often useful, but are not sufficient documentation unless all specific information needed to make a medical necessity determination is included.

Scientific Background and Reference Sources

Food & Drug Administration. Clarifix 510(k) Premarket Notification. 2019 (K190356) https://fda.report/PMN/K190356/19/K190356.pdf. Accessed October 11, 2021.

Kompelli AR, Janz TA, Rowan NR, et al. Cryotherapy for the Treatment of Chronic Rhinitis: A Qualitative Systematic Review. Am J Rhinol Allergy. Nov 2018; 32(6): 491-501. PMID 30229670

Hwang PH, Lin B, Weiss R, et al. Cryosurgical posterior nasal tissue ablation for the treatment of rhinitis. Int Forum Allergy Rhinol. Oct 2017; 7(10): 952-956. PMID 28799727

Chang MT, Song S, Hwang PH. Cryosurgical ablation for treatment of rhinitis: A prospective multicenter study. Laryngoscope. Aug 2020; 130(8): 1877-1884. PMID 31566744

Ow RA, O'Malley EM, Han JK, et al. Cryosurgical Ablation for Treatment of Rhinitis: Two-Year Results of a Prospective Multicenter Study. Laryngoscope. Sep 2021; 131(9): 1952-1957. PMID 33616224

Gerka Stuyt JA, Luk L, Keschner D, et al. Evaluation of In-Office Cryoablation of Posterior Nasal Nerves for the Treatment of Rhinitis. Allergy Rhinol (Providence). Jan-Dec 2021; 12: 2152656720988565. PMID 33598336

Dykewicz MS, Wallace DV, Amrol DJ, et al. Rhinitis 2020: A practice parameter update. J Allergy Clin Immunol. Oct 2020; 146(4): 721-767. PMID 32707227

BCBSA Medical Policy Reference Manual [Electronic Version]. 7.01.168, 9/9/2021

BCBSA Medical Policy Reference Manual [Electronic Version]. 7.01.168, 2/10/2022

Specialty Matched Consultant Advisory Panel 8/2022

Food & Drug Administration. RhinAer (RHIN1 Stylus) 510(k) Premarket Notification. 2019 (K192471).

Del Signore AG, Greene JB, Russell JL, et al. Cryotherapy for treatment of chronic rhinitis: 3-month outcomes of a randomized, sham-controlled trial. Int Forum Allergy Rhinol. Jan 2022; 12(1): 51-61. PMID34355872

Stolovitzky JP, Ow RA, Silvers SL, et al. Effect of Radiofrequency Neurolysis on the Symptoms of ChronicRhinitis: A Randomized Controlled Trial. OTO Open. 2021; 5(3): 2473974X211041124. PMID 34527852

Takashima M, Stolovitzky JP, Ow RA, et al. Temperature-controlled radiofrequency neurolysis for treatment of chronic rhinitis: 12-month outcomes after treatment in a randomized controlled trial. Int Forum Allergy Rhinol. Jun 17 2022. PMID 35714267

Krespi YP, Wilson KA, Kizhner V. Laser ablation of posterior nasal nerves for rhinitis. Am J Otolaryngol. 2020;41(3): 102396. PMID 31948695

Lee JT, Abbas GM, Charous DD, et al. Clinical and Quality of Life Outcomes Following Temperature-Controlled Radiofrequency Neurolysis of the Posterior Nasal Nerve (RhinAer) for Treatment of ChronicRhinitis. Am J Rhinol Allergy. Nov 2022; 36(6): 747-754. PMID 35818709

Ehmer D, McDuffie CM, Scurry WC, et al. Temperature-Controlled Radiofrequency Neurolysis for the Treatment of Rhinitis. Am J Rhinol Allergy. Jan 2022; 36(1): 149-156. PMID 34382444

Ehmer D, McDuffie CM, McIntyre JB, et al. Long-term Outcomes Following Temperature-Controlled Radiofrequency Neurolysis for the Treatment of Chronic Rhinitis. Allergy Rhinol (Providence). 2022; 13:21526575221096045. PMID 35663498

Medical Director Review 8/2023

Specialty Matched Consultant Advisory Panel 8/2023

Policy Implementation/Update Information

10/19/21	New policy issued. Cryoablation for Chronic Rhinitis is considered investigational. Policy
	noticed 10/19/2021 for policy effective date 1/1/2022. (sk)

3/8/22 New indications for radiofrequency ablation and laser ablation for chronic rhinitis added and are considered investigational. Title changed to Cryoablation, Radiofrequency Ablation, and Laser Ablation for Treatment of Chronic Rhinitis. Notification given 3/22/2022 for policy effective date 5/31/2022. (sk)

2/7/23 Specialty Matched Consultant Advisory Panel review 8/19/2022. (sk)

- 9/12/23 Description and Policy Guidelines sections updated. No change to policy intent. Added Related Policies. Updated References. Medical Director Review 8/2023. Specialty Matched Consultant Advisory Panel review 8/2023. (ldh)
- 12/29/23 Added the following CPT codes to the Billing/Coding section: 31242, and 31243, effective 1/1/2024. Removed terminated HCPCS code C9771 from the Billing/Coding section. (ldh)

Medical policy is not an authorization, certification, explanation of benefits or a contract. Benefits and eligibility are determined before medical guidelines and payment guidelines are applied. Benefits are determined by the group contract and subscriber certificate that is in effect at the time services are rendered. This document is solely provided for informational purposes only and is based on research of current medical literature and review of common medical practices in the treatment and diagnosis of disease. Medical practices and knowledge are constantly changing and BCBSNC reserves the right to review and revise its medical policies periodically.