

Clinical Policy: Repair of Nasal Valve Compromise

Reference Number: LA.CP.MP.210 Date of Last Revision: <u>01/2204/23</u> Coding Implications Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

Medical necessity guidelines for repair of nasal valve compromise.

Policy/Criteria

- I. It is the policy of Louisiana Healthcare Connections that repair of nasal valve compromise is **medically necessary** when meeting all of the following criteria:
 - A. Clinical findings of one or more of the following:
 - 1. Internal valve collapse or compromise of the upper lateral cartilage;
 - 2. External nasal valve compromise due to collapse of the lower lateral cartilage;
 - B. Complaints of obstructed breathing that resolve with the Cottle maneuver or lateralization of the upper lateral cartilage from inside the nose with an object (cotton swab, nasal speculum, outpatient nocturnal trial of external stents such as Breathe Right[®] nasal strips, or outpatient nocturnal trial of nasal dilators such as Max-Air Nose Cones[®] and Sinus Cones[®]);

C. Other causes of obstructed breathing have been ruled out, including all of the following:

- 1. Sinusitis;
- 2. Allergic rhinitis;
- 3. Vasomortor rhinitis;
- 4. All of the following, unless addressed concurrently in a medically necessary procedure with repair of nasal valve compromise:
 - a. Nasal polyps;
 - b. Adenoid hypertrophy;
 - c. Nasopharyngeal masses;
 - d. Septal deviation;
 - e. Turbinate hypertrophy;
- D. Symptoms persist despite conservative treatment including one or more of the following:
 - 1. Eight week trial of nasal steroids;
 - 2. Three months of immunotherapy;
 - 3. Multiple courses of antibiotics to treat infection;
 - 4. Allergy assessment and treatment.
- **II.** It is the policy of Louisiana Healthcare Connections that safety and efficacy have not been established for the following procedures for repair of nasal vestibular stenosis:
 - A. Radiofrequency ablation (VivAer[®]);
 - B. Absorbable implants (Latera[®]);
 - C. Nasal valve suspension surgery.



Background

Nasal valve compromise (NVC), also known as nasal valve collapse, is a narrowing of the nasal passageway causing difficult, obstructed breathing. Reasons for NVC are often multifactorial and can be caused by structural weakness or collapse of the nasal valve due to injury or trauma, nasal surgery, chronic inflammation, congenital defects or the natural aging process. NVC may also present as a symptom of rhinitis, sinusitis, septal deviation or adenoid hypertrophy.

Epidemiology <u>information purposes proposes</u>data suggests that up to 13% of the patients with chronic nasal obstruction have NVC. It is most commonly a unilateral condition in as many as 88% of patients.²

Symptoms of NVC include difficulty inhaling through the nose, sensation of congestion, stuffiness, fullness or blockage, nasal bleeding, and snoring. Symptoms may become exacerbated at different times of the day, seasonally, with exposure to different environmental stimuli and in the supine position.

When diagnosing NVC there are several specific questions and tests a physician may use in addition to a thorough medial history and physical exam of the nose, nasal cavity, and nasopharynx.

Important medical history questions include:¹

- Location Whether or not symptoms are unilateral
- Time course History of the nasal symptoms, including time of day and seasonal variation to rule out allergic process
- Triggers Allergic stimuli and airborne exposures
- Symptoms of rhinosinusitis Facial pain or pressure, nasal congestion, dysosmia, headache, purulent nasal discharge
- Symptoms suggesting malignancy Facial deformity, cranial nerve dysfunction, and unexplained epistaxis
- Intranasal drug use Intranasal cocaine or overuse of topical nasal decongestant, such as oxymetazoline or phenylephrine
- Oral medications Oral contraceptives, antithyroid medication, antihypertensive medication, antidepressants, and benzodiazepines
- Trauma History of nasal trauma or previous nasal surgery, particularly rhinoplasty
- Medical history Granulomatosis with polyangiitis, cystic fibrosis, sarcoidosis, and syphilis, and asthma

Specific tests indicated in cases of suspected NVC include:^{1,2}

- NOSE score (Nasal Obstruction Symptom Evaluation)
- Cottle's maneuver Widening the nasal valve angle by pulling laterally on the cheeks and assessing for improvement in nasal breathing
- Bachman's maneuver Widening and stabilizing the nasal valve using instruments simulating the effect of a surgical procedure while assessing the subjective impact on nasal breathing
- Nasal decongestant instillation
- Rhinomanometry



- Acoustic rhinometry
- Full assessment of facial nerves to detect denervation or paralysis
- Anterior rhinoscopy
- Nasal endoscopy
- Computed tomography (CT) scan of the nose and paranasal sinuses
- Peak nasal airflow

Surgical intervention is the primary treatment for NVC and typically consists of insertion of cartilage grafts to support the existing cartilage in the lateral nasal wall or alar rim. There is also consensus that, although a separate entity, correction of a deviated septum or hypertrophied turbinate can sometimes correct NVC.³

VivAer[®]

The Aerin[™] VivAer[®] procedure is a non-invasive, office based procedure that employs lowdose radiofrequency (RF) energy to modify soft tissues of the nose with the intent of improving airflow for patients with nasal valve collapse (NVC). The Aerin[™] System automatically adjusts the power output to maintain target temperature for therapeutic benefit while sparing surrounding tissue, including mucosa. The RF energy allows tissue to be repositioned laterally and creates a coagulation lesion. As the lesion heals, the tissue retracts and stiffens to lessen the degree of obstruction, decrease the airflow resistance, and improve the inhaled flow of air through the nose. The device consists of a console and two styluses, one for nasal airway obstruction and one for chronis rhinitis.^{2,4}

According to the Hayes Evolving Evidence Review, a review of full-text clinical studies suggests minimal support for using the VivAer radiofrequency procedure for remodeling the nasal valve area when collapse of the nasal valve is associated with chronic nasal obstructive symptoms. There were only two studies were identified and both studies were of poor quality since they did not have a comparison group and compared pretreatment and post treatment metrics only. A review of full-text systematic reviews suggests no support for using VivAer for the management of nasal obstruction related to nasal valve collapse, as there were no systematic reviews identified.²

Latera®

Latera[®] is an absorbable nasal implant used to support the upper and lower cartilage inside the lateral (side) wall of your nose. It is placed under general anesthesia with a 16-gauge cannula via an endonasal access point. Over the course of approximately 12 months following placement, the implant is enveloped by fibrous tissue that helps to maintain stability and positioning. By about 18 months, the implant will have been absorbed and replaced with fibrous collagen matrix that provides continued support. The system consists of the Latera Absorbable Nasal Implant and delivery device as well as an implant positioning guide intended to serve as an external visual planning aid prior to implant placement. The Implant is composed of a PLLA-PDLA copolymer.^{5,6}



Per Hayes' Evolving Evidence Review, clinical evidence suggests absorbable nasal implants are technically feasible to implant and are associated with reductions in nasal airway obstruction and pain. However, evidence is of generally very poor quality and there is a paucity of studies with control groups to inform whether absorbable nasal implants have clinical performance that is better, worse, or similar to competing technologies such as non-absorbable nasal implants.⁵ A review of clinical studies suggests minimal support for using absorbable nasal implants for NVC due to poor quality studies that had limited follow up or provided adjunctive treatment with the absorbable nasal implant.¹¹

Coding Implications

This clinical policy references Current Procedural Terminology (CPT[®]). CPT[®] is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 2021, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only and may not support medical necessity. Inclusion or exclusion of any codes does not guarantee coverage and may not support medical necessity. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

CPT Codes That Support Coverage Criteria

CPT ^{®*}	Description
Codes	
30465	Repair of nasal vestibular stenosis (eg, spreader grafting, lateral nasal wall
	reconstruction)

CPT Codes That Do Not Support Coverage Criteria

CPT ^{®*} Codes	Description
30468	Repair of nasal valve collapse with subcutaneous/submucosal lateral wall implant(s)

HCPCS Codes	Description
N/A	

ICD-10-CM Diagnosis Codes that Support Coverage Criteria

+ Indicates a code(s) requiring an additional character

ICD-10-CM Code	Description
J34.89	Other specified disorders of nose and nasal sinuses

Reviews, Revisions, and Approvals		Approval Date
Policy rebranded from Corporate	1/22	
Annual Review. Updated Criteria I.B. to include nasal dilators such as	<u>4/23</u>	
Max-Air Nose Cones [®] and Sinus Cones [®] . Background updated with no		
impact on criteria. References reviewed and updated		



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<u>12.</u>

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved.

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