Balloon Sinus Ostial Dilation

Policy Number: 2021T0571K
Effective Date: August 1, 2021

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Coverage Rationale

Balloon sinus ostial dilation is proven and medically necessary for either of the following conditions:

• **Chronic Rhinosinusitis** which has all of the following:
  o Lasted longer than 12 weeks
  o Persistence of symptoms despite administration of full courses of all of the following treatments:
    ▪ Antibiotic therapy, if bacterial infection is suspected, and
    ▪ Intranasal corticosteroids, and
    ▪ Nasal lavage
  o Confirmation of **Chronic Rhinosinusitis** on a computed tomography (CT) scan for each sinus to be dilated meeting all of the following criteria:
    ▪ CT images are obtained after completion of medical management, and
    ▪ Documentation of which sinus has the disease and the extent of disease including the percent of opacification or the use of a scale such as the Modified Lund-Mackay Scoring System, and
    ▪ CT findings include one or more of the following:
      - Bony remodeling
      - Bony thickening
      - Opacified sinus
      - Ostial obstruction (outflow tract obstruction) and mucosal thickening
  o Sinonasal symptoms such as pain, pressure, or drainage are present on the same side as CT scan findings of rhinosinusitis
  o The balloon sinus ostial dilation limited to the frontal, maxillary, or sphenoid sinuses,
  o The balloon sinus ostial dilation performed as either a stand-alone procedure or part of Functional Endoscopic Sinus Surgery (FESS)

• **Recurrent Acute Rhinosinusitis** with all of the following:
  o Four or more episodes per year with distinct symptom free intervals between episodes, and
  o CT scan evidence of ostial obstruction (outflow tract obstruction) and mucosal thickening in the sinus to be dilated, and
  o Sinonasal symptoms such as pain, pressure, or drainage are present on the same side as CT scan findings of rhinosinusitis
Balloon sinus ostial dilation is unproven and not medically necessary for treating the following due to insufficient evidence of efficacy:

- Nasal polyps or tumors
- All other conditions that do not meet the above criteria

Self-expanding absorptive sinus ostial dilation is unproven and not medically necessary for evaluating or treating sinusitis and all other conditions due to insufficient evidence of efficacy.

### Documentation Requirements

Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The documentation requirements outlined below are used to assess whether the member meets the clinical criteria for coverage but do not guarantee coverage of the service requested.

<table>
<thead>
<tr>
<th>CPT Codes *</th>
<th>Required Clinical Information</th>
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<tbody>
<tr>
<td><strong>Balloon Sinus Ostial Dilation</strong></td>
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<tr>
<td>31295</td>
<td>Medical notes documenting the following, when applicable:</td>
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<tr>
<td>31296</td>
<td>• History of illness</td>
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<tr>
<td>31297</td>
<td>• Recent physical exam</td>
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<tr>
<td>31298</td>
<td>• One of the following:</td>
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<td>o Chronic Rhinosinusitis including the following:</td>
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<td>▪ Treatments tried and failed including duration of treatments/medical therapies</td>
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<td>▪ Post medical management CT scan images:</td>
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<td>– That show the abnormality for which surgery is being requested</td>
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<td></td>
<td>– Are the optimal images to show the abnormality of the affected area with use of the Modified Lund-Mackay Scoring System to define the severity of Chronic Rhinosinusitis</td>
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<td>– Note: Upon request, CT images may be required and must be labeled with:</td>
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<tr>
<td></td>
<td>• The date taken</td>
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<td></td>
<td>• The applicable case number obtained at time of notification, or member's name and ID number on the images</td>
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<td>• Whether the images were taken pre- or post-medical therapy</td>
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<td>– CT images can be submitted via the external portal at <a href="http://www.uhcp%C2%ADrovider.com/paan">www.uhcp­rovider.com/paan</a>; faxes will not be accepted</td>
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<td>▪ CT scan report documents all of the following:</td>
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<td>– Which sinus has the disease</td>
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<td>– The extent of disease including the percent of opacification or the use of a scale such as the Modified Lund-Mackay Scoring System</td>
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<td>▪ Evidence that the sinusitis involves frontal, maxillary, or sphenoid sinuses</td>
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<td>▪ Planned procedure, including if the procedure will be part of a functional endoscopic sinus surgery (FESS)</td>
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<td>o Recurrent Acute Rhinosinusitis including the following:</td>
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<td></td>
<td>▪ Number of episodes per year of Acute Rhinosinusitis</td>
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<td>▪ Signs and symptoms</td>
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<td>▪ CT scan images:</td>
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*For code descriptions, see the Applicable Codes section.

**Definitions**

**Acute Rhinosinusitis (ARS):** ARS is a clinical condition characterized by inflammation of the mucosa of the nose and paranasal sinuses with associated sudden onset of symptoms of purulent nasal drainage accompanied by nasal obstruction, facial pain/pressure/fullness, or both of up to 4 weeks duration (American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS) Clinical indicators for endoscopic sinus surgery for adults. 2012, Updated 2015).

**Chronic Rhinosinusitis (CRS):** An inflammatory process that involves the paranasal sinuses and persists for longer than 12 weeks (Rosenfeld et al., 2015; Peters et al., 2014).

**Functional Endoscopic Sinus Surgery (FESS):** A minimally invasive, mucosal-sparing surgical technique utilized to treat medically refractory CRS with or without polyps or recurrent acute rhinosinusitis.

**Modified Lund-Mackay Scoring System:** A tool used to quantify the severity of Chronic Rhinosinusitis based on computed tomography (CT) scan findings. The Lund-Mackay System was modified by Zinreich by increasing the scale from 0 to 5. In the modified Lund-Mackay System, each sinus is assigned a score based on the percentage of opacification from mucosal thickening as follows: 0 = 0%, 1 = 1% to 25%, 2 = 26% to 50%, 3 = 51% to 75%, 4 = 76% to 99%, and 5 = 100% or completely occluded. The ostiomeatal complex is given a score of 0 to 2, depending on whether it is completely patent, partially obstructed, or completely obstructed. Each side is graded and their sum is the total score out of maximum of 54 (Likness et al., 2014).

**Recurrent Acute Rhinosinusitis (RARS):** RARS is defined as four episodes per year of acute rhinosinusitis with distinct symptom free intervals between episodes (Rosenfeld et al., 2015).

**Applicable Codes**

The following list(s) of procedure and/or diagnosis codes is provided for reference purposes only and may not be all inclusive. Listing of a code in this policy does not imply that the service described by the code is a covered or non-covered health service. Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Guidelines may apply.

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>31295</td>
<td>Nasal/sinus endoscopy, surgical, with dilation (e.g., balloon dilation); maxillary sinus ostium, transnasal or via canine fossa</td>
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<tr>
<td>31296</td>
<td>Nasal/sinus endoscopy, surgical, with dilation (e.g., balloon dilation); frontal sinus ostium</td>
</tr>
<tr>
<td>31297</td>
<td>Nasal/sinus endoscopy, surgical, with dilation (e.g., balloon dilation); sphenoid sinus ostium</td>
</tr>
<tr>
<td>31298</td>
<td>Nasal/sinus endoscopy, surgical, with dilation (e.g., balloon dilation); frontal and sphenoid sinus ostia</td>
</tr>
<tr>
<td>31299</td>
<td>Unlisted procedure, accessory sinuses</td>
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</tbody>
</table>
Description of Services

Individuals who have persistent or Chronic Rhinosinusitis that has failed medical therapy may require surgery. Chronic Rhinosinusitis is defined as rhinosinusitis lasting longer than 12 weeks (Rosenfeld et al., 2015; Peters et al., 2014). Functional Endoscopic Sinus Surgery (FESS) is an accepted procedure for Chronic Rhinosinusitis refractory to medical therapy. FESS is a minimally invasive technique in which the sinus air cells and ostia are opened and drained under direct visualization. Polyps and infected tissue can be removed at the same time.

Balloon sinus ostial dilation, also known as balloon dilation sinuplasty or balloon catheter sinusotomy, has been proposed as an alternative or an addition to traditional endoscopic sinus surgery. Several procedural approaches have been proposed for balloon sinus ostial dilation. The first type of approach is done through the nostrils by inserting a small balloon through a tube placed in the nasal cavity where the blocked sinus is located. Using navigation or endoscopic visualization, the balloon is gradually inflated to compress tissue and bone and widen the sinus ostium or outflow tract. The balloon is then removed and an endoscope may be used to assess the width of the nasal passage. The second type of approach is the transantral approach which is done by creating a small entry point under the lip. The balloon catheter is then directly inserted into the target sinus. Potential advantages of sinus balloon catheterization include minimal mucosal damage, minimal intraoperative bleeding, and minimal discomfort. Balloon sinus ostial dilation can be performed as a stand-alone procedure or with FESS. When performed with FESS, it may be referred to as a hybrid procedure.

Self-expanding absorptive sinus ostial dilation has been proposed as an alternative to standard balloon sinus ostial dilation. The self-expanding device is inserted into the sinus ostia and starts absorbing moisture and begins to expand providing gradual dilation of the sinus ostia. When the device is fully expanded, it is removed. The SinuSys Vent-OS Sinus Dilation System is a self-expanding device that has been cleared by the FDA. These devices are being studied to determine their safety and effectiveness.

Clinical Evidence

Saltagi et al. (2021) performed a systematic review reviewing the literature on the management of recurrent acute rhinosinusitis (RARS). A total of 1022 titles/abstracts possibly related to RARS were identified. Of these, sixty-nine full texts were selected for review, and 10 met inclusion criteria (five with level 4 evidence, four with level 3 evidence, one with level 2 evidence). The studies included a total of 890 patients (Age range 5.8 to 53.5 years), with follow up ranging from 1 to 19 months. The focus or end results were primarily based on symptomatic improvement, although some articles also reported post-treatment endoscopic and radiographic findings. Management options included medical therapy (intranasal steroids, antibiotics, nasal saline irrigations, N-acetylcysteine, allergy treatment, and decongestants), balloon sinus dilation (BSD), and endoscopic sinus surgery (ESS). Two included studies focused on BSD, with level of evidence assessed at 3 and 4. Surgical patients (BSD and ESS) had a trend towards greater symptom control than medically treated patients, but meta-analysis was not possible. Although there are study limitations, the author's note that until better evidence can be obtained, current recommendations are based on expert opinion. Recommendations include considering surgery when patients experience four annual episodes (with at least one episode confirmed via computed tomography or nasal endoscopy) and the patient has either failed a trial of topical nasal steroids or experienced RARS-related productivity loss. (Sikand et al. 2018 included in this review)

Mirza et al. (2020) performed a systematic review and meta-analysis of the efficacy and safety of balloon catheter sinuplasty (BCS) in pediatric chronic rhinosinusitis (CRS). Out of 112 articles identified, 10 articles were included: two interventional controlled trials and eight observational studies that evaluated the efficacy of balloon catheter sinuplasty for CRS. All studies evaluating QoL by SN-5 showed a remarkable reduction in SN-5 score postoperatively. Improvement in the computed tomography (CT) and endoscopic findings for up to 1 year after operation was reported. (Liu 2017). Additionally, the majority of patients treated with BCS did not receive any course of sinusitis-indicated antibiotics during long-term followup, they had low surgical revision rates and overall improvement in quality of life. Minor side effects were described, most commonly synechia. The studies evidence suggests that BCS is safe and effective for the treatment of CRS in pediatric patients. The limited number of studies available was a limitation. While the age range was identified, the number of patients under 7 years was not known. Future randomized controlled studies with large sample size and long-term follow-up are needed. Such studies can further determine the efficacy of BCS in managing children with CRS. (Liu et al. 2017 and Soler et al. 2017 are included in this review)
Liu et al. (2020 and Liu et al. 2017) performed a prospective study that included 30 children with chronic rhinosinusitis who had insufficient benefits from medical therapy (such as oral antibiotics, topical steroids, saline nasal irrigation, and/or allergy management) for at least 3–6 months and received balloon sinuplasty of selected sinuses. Specific inclusion criteria were, among other: symptomatic inflammatory condition of the mucosa of nose and paranasal sinuses for more than 12 weeks; a positive computed tomography (CT) scan; medical management at least 3–6 months that failed. Data was collected, including age, visual analog scale (VAS) score, computed tomography (CT) score, and nasal endoscopy findings. In the initial study, the procedure was successful in 61/65 sinuses (93.84%). Balloon sinuplasty improved sinus-related quality of life scores as well as CT and endoscopic findings for up to 1 year after operation. The initial study, balloon sinuplasty showed a clinical curative effect in the treatment of children with refractory chronic rhinosinusitis and was relatively safe. Structural abnormalities in sinus ostia and hypoplastic sinuses may not be amenable to balloon catheter sinuplasty. In the 3-year follow-up, most did not require nose-related medications or auxiliary therapies, and were free of symptoms, or the symptoms did not affect their daily activities. Of the 30 children there were no complications of facial pain, teeth numbness, facial deformity, and dysosmia. The clinical symptoms and quality of lives of all 29 children were improved during the 3-year follow up. The VAS scores of surgery after 2 years ranged from 0.0 to 5.0 and 3-year ranged from 0.0 to 9.0. VAS scores were significantly lower at 2-year (p < 0.001) and 3-year (p < 0.001) after surgery. The quality of life of the patients was evaluated by a questionnaire (SN-5 for <12 years old; SNOT-22 for ≥12 years old). The questionnaire scores 2-years ranged from 0.0 to 7.0), 3-years between 0.0 and 10.0. A statistically significant (p < 0.001) score decrease was obtained by the questionnaire between preoperative and 2-year, 3-year post-surgery. These findings suggested that the symptoms, including nasal obstruction and rhinorrhea, were clearly improved, and lasted for 3-years after the surgery, suggesting long-term efficacies of balloon sinuplasty in children. The findings are limited by lack of comparison group undergoing a different intervention.

In a randomized, controlled study Sikand et al. (2018) evaluated 24-week outcomes for balloon sinus dilation (BSD) performed in-office (IO) with medical management (MM) as compared with MM only for recurrent acute rhinosinusitis (RARS) patients. Adults diagnosed with RARS were randomized to groups with BSD plus MM (n = 29) or MM alone (n = 30). Patients who received MM alone also received a sham BSD-IO procedure to blind them to group assignment. Inclusion criteria comprised having 4 or more episodes of acute bacterial rhinosinusitis within the previous 12 months and evidence of sinus or osteomeatal complex disease during an acute episode from a CT scan. Patients were followed to 48 weeks posttreatment. The primary outcome was the difference between arms in change in Chronic Sinusitis Survey (CSS) score from baseline to 24 weeks. Change in patient-reported quality of life (QOL), as measured by the CSS total score from baseline to 24 weeks, was significantly greater in the BSD plus MM group compared with the MM-only group (37.3 ± 24.4 [n = 26] vs 21.8 ± 29.0 [n = 27]; p = 0.04). The authors concluded that BSD plus MM proved superior to MM alone in enhancing QOL for RARS patients. According to the authors, BSD plus MM should be considered as a viable treatment option for properly diagnosed RARS patients.

Ni et al. (2018) conducted a systematic review and meta-analysis on studies using the Sinus and Nasal Quality of Life Survey (SN-5) which is a validated symptom questionnaire in pediatric CRS. A total of 10 studies, consisting of 13 separate treatment arms of either medical therapy, adenoectomy, balloon catheter sinuplasty (BCS), or FESS were included in the review. The investigators limited inclusion of studies to pre/post studies that reported changes in SN-5 scores. Despite the multiple interventions under consideration in this meta-analysis, no treatment comparisons were conducted. Five of the 10 studies that met inclusion criteria for the meta-analysis reported SN-5 improvement following treatment with BCS. In the BCS-stratified meta-analysis of these 5 articles that included 172 total patients, the mean SN-5 score decreased by 1.97 points (95% CI, –2.76 to –1.18), which the authors report as a statistically significant improvement (P<0.00001). These findings are however limited by lack of direct comparison group in 4 out of the 5 studies of BCS. (Soler, et al. 2017 and Wang, et al. 2015 are included in this review.)

Kutluhan et al. (2018) compared the technique of balloon sinoplasty with the classical functional endoscopic sinus surgery method by considering the severity of chronic sinusitis on the same patient. A total of 61 chronic sinusitis patients was included in the study. Paranasal sinus tomography of the patients was taken and according to the Lund-Mackays scoring, chronic sinusitis levels were determined. Cases were divided into two groups: Group 1 (severe chronic sinusitis group) and Group 2 (mild chronic sinusitis). There was no statistically significant difference in the results of comparison of sinuses which underwent balloon sinoplasty and classical functional endoscopic sinus surgery in Group 2 after Lund-Mackay scores. However in Group 1, the results of the comparison of postoperative Lund-Mackay scores of the balloon sinoplasty and the classical endoscopic operation were statistically significantly lower than those of the face half operated with the classical functional endoscopic sinus surgery. The authors concluded that the success of balloon sinoplasty in patients with mild sinusitis is the same as in classic functional endoscopic sinus surgery. However, as the severity of sinusitis increases, the efficacy of balloon sinoplasty...
The study is limited by lack of randomization between treatment approaches and a sample size that may have been too small to detect clinically significant differences.

Minni et al. (2018) conducted a multicenter prospective randomized study to assess the validity and safety of balloon catheter dilation (BCD) vs. endoscopic sinus surgery (ESS) in chronic rhinosinusitis of the frontal sinus enrolling a population of 102 adult patients (64 men and 38 women; overall 148 frontal sinuses studied) with non-polypoid chronic rhinosinusitis (CRS). All patients had been subjected to medical therapy (antibiotics, corticosteroids and nasal irrigations with saline solution) for at least two months and had not shown improved evaluation criteria. The radiological (Lund-McKay CT scoring modified by Zinreich) and symptomatic results (SNOT-20 questionnaire) were analyzed. The population affected was divided in two groups, one with light/mild frontal CRS and the other with moderate/severe frontal CRS, based on radiological findings at Lund-Mackay modified by Zinreich score. Every group was divided in two subgroups: one used BCD and the other used traditional ESS. The results showed a not statistically significant difference between BCD and conventional ESS of the frontal sinus in patients with light/mild CRS and in patients with moderate/severe CRS at Lund-Mackay modified by Zinreich score. The same not statistically significant difference was observed comparing the results of SNOT-20 questionnaire in the group of light/mild frontal chronic rhinosinusitis. A statistically significant better outcome of SNOT-20 score was noted in patients with moderate/severe chronic rhinosinusitis that underwent BCD of frontal sinus compared to ESS. The study is however limited by a sample size that may have been too small to detect clinically significant group differences.

In a prospective single-blinded randomized controlled trial, Laury et al. (2018) evaluated if balloon catheter dilation of sinus ostia affects the severity or frequency of headache among patients who have barometric pressure-related sinus headache. Subjects with a diagnosis of sinus pressure headache without evidence of mucosal thickening on computed tomography were included in the study. Subjects were blinded and randomized to undergo balloon dilation of affected sinus ostia (active treatment) or balloon dilation in the nasal cavity (placebo). Two balloon devices were utilized (Acclarent and Entellus) and outcomes compared. Subjects were followed with pre- and postprocedure SNOT-22 scores (Sinonasal Outcome Test-22), HIT-6 scores (Headache Impact Test-6), and medication utilization logs for 6 months. There was no statistically significant difference in SNOT-22 or HIT-6 scores between the arms at any time point. However, both arms experienced statistically and clinically significant decreases in SNOT-22 and HIT-6 scores from preprocedure to 6 months postprocedure. There was no statistically significant difference in SNOT-22 or HIT-6 score reductions between the Entellus and Acclarent devices. There was no statistically significant difference in medication utilization between the groups at any time point. The authors concluded that subjects with sinus pressure headache without evidence of mucosal thickening on computed tomography had no significant difference in outcomes between active treatment (balloon dilation of sinus ostia) and placebo (nasal dilation). The authors indicated that further study on the etiology and effective treatment of barometric pressure related sinus headache is needed.

Marzetti et al. (2017) evaluated if balloon sinuplasty could be an option in the treatment of rhinogenic headache due to a probable disventilation of frontal sinus recess. A total of 107 patients without signs of inflammatory disease were included in the study with diagnosis of rhinogenic headache. The surgical group underwent bilateral balloon sinuplasty of the frontal sinus. The medical group underwent pharmacological treatment. Headaches characteristics were evaluated by a clinical personal diary. The severity was recorded by Visual Analog Scale 4 and 8 months after treatment. Ninety-eight out of 107 patients completed the protocol. In surgical group and in the medical group, the mean headache score improved at four and eight months follow-up. The headache frequency attacks per month decrease from a preoperative frequency of 18 (±4 SD) in the surgical group and 17 (±3 SD) in the medical group to 3 (±1 SD). However, in both groups despite the improvement observed at 4 months follow-up, the authors observed a further worsening of symptoms at 8 months follow-up. The authors concluded that balloon sinuplasty should be considered as an effective alternative option after an accurate selection of surgical candidates. The findings of this study need to be validated by well-designed controlled studies with larger sample sizes. The study is limited by lack of randomization or sham procedure.

Chandra et al. (2016) reported the final results from the REMODEL full-study cohorts and performed meta-analyses of standalone balloon sinus dilation studies to explore long-term outcomes in a large patient sample. Final outcomes from the REMODEL randomized trial, including a larger cohort of 135 patients treated with FESS or in-office balloon dilation, were evaluated. One hundred thirty patients had 12-month data, 66 had 18-month data, and 25 had 24-month data. In addition, a meta-analysis evaluated outcomes from six studies including 358 standalone balloon dilation patients with up to 24 months follow-up. Outcomes out to 2 years from the REMODEL full-study cohort are consistent with 6-month and 12-month outcomes. In the meta-analysis of standalone balloon dilation studies, technical success is 97.5%, and mean 20-item Sino-Nasal Outcomes Test scores are significantly and clinically improved at all time points. There are significant reductions in work/school days missed, homebound days, physician/nurse visits, acute infections, and antibiotic prescriptions. Mean recovery time is 1.4 days.
Comparison of 12-month symptom improvements and revision rates between the REMODEL FESS arm (n = 59), REMODEL balloon dilation arm (n = 71), and pooled single-arm standalone balloon dilation studies (n = 243) demonstrated no statistical difference. The meta-analysis included a subgroup analysis for patients with chronic rhinosinusitis (n=191) versus recurrent acute rhinosinusitis (n=52). Both groups experienced statistically significant and clinically meaningful improvements in mean SNOT-20 scores, with no significant difference between groups. The authors concluded that all outcomes are comparable between FESS and balloon dilation at all time points from 6 months to 24 months. According to the authors, balloon dilation produces faster recovery, less postoperative pain, and fewer debridements than FESS. (Cutler et al. 2013 and Bikhazi et al. 2014 are included in this report). This study is limited by the large loss-to-follow-up, which may have been differential and introduced biases in the findings, as well as a sample size that may have been too small to detect clinically significant differences between groups.

Levy et al. (2016) conducted a systematic review and meta-analysis to evaluate paranasal sinus balloon catheter dilation (BCD) in the treatment of CRS. Preferred Reporting Items for Systematic Reviews and Meta-analyses guidelines were utilized to identify English-language studies reporting patient outcomes following BCD for CRS. Primary outcomes included the impact of BCD on validated measures of quality of life and sinonasal opacification. The systematic review identified 17 studies for qualitative analysis. Studies generally included cases with limited disease based on radiographic opacification. Five studies contained extractable data for change in 20-Item Sinonasal Outcome Test (SNOT-20) 1 year following BCD, with significant improvement in self-reported quality of life. Five studies reported a significant change in paranasal sinus opacification following BCD. Two studies directly compared change in SNOT-20 between BCD and endoscopic sinus surgery, without demonstration of significant difference in outcome. Subgroup analysis found that change in SNOT-20 score was greater after BCD in the operating room than in the office. The authors concluded that current evidence supporting the role of BCD in CRS remains incomplete. According to the authors, long-term within-group improvements in quality-of-life and sinus opacification scores are demonstrated among a restricted adult population with CRS. The authors indicated that additional study is needed to further evaluate the role for BCD in specific settings and patient subgroups. (Friedman 2008 and Gould 2014 are included in this study).

In a prospective, randomized, non-blinded, controlled trial, Bizaki et al. (2016) evaluated and compared the clinical outcome of balloon sinusplasty and uncinectomy for patients suffering from isolated CRS of the maxillary sinus. The study included 74 (62 analyzed) adult patients with symptomatic isolated chronic or recurrent rhinosinusitis without severe findings in the sinuses, as documented in the sinus’ Computer Tomography scan and clinical examination, were randomised into two groups: uncinectomy and balloon sinusplasty. Failure of conservative treatment (i.e., with saline irrigations, antihistamines, prolonged antibiotics and local corticosteroids) was an inclusion criterion, while visible polyps in nasal direct endoscopy was an exclusion criterion. The variables in the study are the Sinonasal Outcome Test-22 (SNOT 22), acoustic rhinometry and rhinomanometry. These parameters were analyzed preoperatively and postoperatively (after 3 and 6 months). Both balloon sinusplasty and uncinectomy significantly improved almost all the parameters of SNOT22, with no significant difference being found between these two groups. Based on rhinomanometry results, airway resistance decreased after treatment. Regarding adverse effects, balloon sinusplasty was significantly associated with a lesser risk of synechia. The authors concluded that both balloon sinusplasty and uncinectomy improved the quality of life and decreased upper airway resistance of patients with mild, isolated chronic or recurrent rhinosinusitis.

Koskinen et al. (2016) compared the long-term efficacy and satisfaction in CRS patients who had undergone maxillary sinus operation with either balloon sinusplasty or ESS technique. Study patients were recruited from 208 CRS-patients who underwent either ESS or balloon sinusplasty. Patients with nasal polyposis (gradus ≥ 2), previous sinonasal surgery, unilateral disease, or immune deficiency were excluded. Altogether 45 patients in the ESS group and 40 patients in the balloon group were included. Of these, 30 and 28, respectively, answered to a phone interview held on average 6 years after primary surgery. Symptom reduction and long-term satisfaction were evaluated by using symptom scores of 19 parameters altogether. Both groups experienced improvement in symptoms and were equally satisfied with the operation. The number of patient-reported acute exacerbations was higher among the balloon dilated patients. Also, the reduction of thick nasal discharge was less evident in the balloon sinusplasty group. Four patients in the balloon sinusplasty group underwent revision surgery. There were no revisions in the ESS group. According to the authors, this is the first controlled study of balloon sinusplasty’s long-term efficacy with the follow-up time over 5 years. The authors stated that both techniques retained the efficacy and patient satisfaction on average 6 years after the surgery.

Prince and Bhattacharyya (2016) conducted an analysis of adverse events related to balloon sinusplasty devices. The Open FDA program website of the FDA was queried for adverse events related to dilation of paranasal sinus ostia from January 2006 to December 2014. A total of 114 adverse events were identified, including patient injury (n=72), device malfunction (n=36), death
The most common injuries were orbital wall fractures (n=23), postseptal orbital injuries (n=22), preseptal orbital injuries (n=22), and skull base injuries (n=17). Two of the 4 deaths were attributed to the procedure: postoperative meningitis following a hybrid sinus procedure and surgeon error due to off-label use of device for frontal sinus trephination. The authors conclude that based on the number of balloon sinus procedures performed, FDA-reported adverse events are uncommon, although a select portion can be severe.

In a prospective, multicenter, single-arm investigation, Soler et al. (2016) conducted a study of children (2 to 21 years old) with CRS treated with balloon sinus dilation, who had failed medical management and followed them to 6 months post procedure. Fifty children were treated at 4 centers; 33 participants were 2 to 12 years old, and 17 participants were >12 to 21 years A total of 157 sinus dilations were attempted and all were successful with no complications. The results showed significant improvement in the Sinus and Nasal Quality of Life Survey (SN-5) was seen for all children between baseline and 6 months and 92% improved by a minimal clinically important difference (MCID) of 1.0 or more. Those children aged 2 to 12 years with standalone balloon dilation also showed significant SN-5 improvements between baseline and follow-up. Multivariate regression analysis showed no differences or associations of SN-5 improvement at 6 months with the presence of allergy, asthma, or concomitant procedures. For adolescents, overall, 22-item Sino-Nasal Outcome Test (SNOT-22) mean scores were also significantly improved at 6 months. The authors concluded that the results of this study show balloon sinus dilation to be safe and appears effective for children with CRS aged 2 years and older. The findings are however limited by a lack of comparison group.

Thottam et al. (2016) evaluated the 2-year post-operative outcomes of pediatric patients with CRS treated with balloon catheter sinuplasty (BCS) and ethmoidectomy compared to functional FESS. Two-group, retrospective cohort study of 28 children with CRS was performed. Of these 28 participants, 15 were treated with traditional FESS (53.6%) and 13 (46.4%) underwent traditional ethmoidectomy with balloon sinuplasty. Pre-operative and 2-year postoperative total symptom scores and medications were compared. To examine the potential long-term differences in surgical outcomes and surgical procedure on symptom outcome, one-tailed Chi square analyses were employed. The mean age of the children examined was 9.3 and 61.9% were male. Pre-operative symptomatology, medication and Lund Mackay scores were evaluated for both groups and no significant differences were identified. Overall, 73.3% of children that underwent traditional FESS and 76.9% of those who had BCS with ethmoidectomy reported significant long-term improvement in at least one of their pre-operative sinus complaints. According to the authors, this data suggests that both BCS with ethmoidectomy and traditional FESS are effective treatment options for uncomplicated CRS and result in long-term alleviation of core sinus complaints, as well as decreased sinus related medication use. The study is limited by lack of randomization, retrospective design, and a sample size that may have been too small to detect clinically significant differences.

In a prospective cohort study, Wang et al. (2015) evaluated the efficacy of sinus balloon catheter dilation (SBCD) on pediatric CRS. The study included a total of 79 patients, aged 7 to 12 years, with CRS resistant to medical therapy. Age, sex, and results of computed tomographic scan, SBCD (intervention group) or conservative treatment (control group), sinonasal-5 questionnaire (SN-5), and visual analog scale (VAS) were analyzed and compared. Data from 79 of 96 patients who had complete follow-up documents were statistically analyzed (42 boys; 37 girls; mean [SD] age, 9.3 [1.7] years). Compared with the preoperative scores, the SN-5 and VAS scores in children with CRS who underwent SBCD with or without adenoectomy were significantly lower at 3 months and at 1 year. Both SN-5 and VAS scores in the control group were significantly decreased at 3 months but not significantly changed at 12 months. The SN-5 and VAS scores in the SBCD group were significantly lower than those for controls at 3 months and at 1 year after surgery. By the 12-month SN-5 score evaluation, the rates of marked, moderate, and mild improvement were significantly better in the SBCD group (52% [22 of 42], 26% [11 of 42], and 14% [6 of 42], respectively) than in the control group (14% [5 of 37], 19% [7 of 37], and 11% [4 of 37], respectively). The authors concluded that the SBCD procedure is a safe and effective technique for pediatric CRS resistant to medical therapy. The study is however limited by lack of randomization or masking to the intervention.

In a double-blind randomized controlled trial (Plaza et al., 2011), the efficacy and safety of balloon sinuplasty with the Relieva was compared with standard FESS with the Draf I procedure in 40 patients (median age 41.3 years) with chronic sinusitis of the frontal sinus in whom medical therapy had failed. All of the patients had nasal polyposis treated during surgery. The patients were randomly allocated in a 1:1 manner to balloon dilation of the affected frontal recess or to conventional frontal sinus drainage with a Draf I procedure. Both procedures were performed during FESS directed to the affected frontal sinus. The patients and the evaluating physician were blinded to the treatment arm. Before initiation of treatment, 6 patients dropped out or were excluded leaving 17 patients in each group. The patients were followed for 12 months. In both groups, a statistically significant reduction in the Lund-Mackay stage was obtained. Resolution of frontal sinus disease confirmed by computed
tomographic scan seemed to be more common after balloon dilation, although this finding was not statistically significant. Permeability of the frontal recess was seen on endoscopy statistically more frequently after balloon treatment (73% versus 62.5%). Four patients needed revision surgery. No major complications were observed. The authors concluded that balloon dilation of the frontal recess is a relatively safe and effective tool in the management of chronic frontal rhinosinusitis after intensive medical treatment has failed. The sample size may however have been too small to detect a clinically significant difference between groups.

A Hayes Health Technology Assessment for Balloon Sinuplasty for Treatment of Chronic Rhinosinusitis in Adult Patients concluded that there is sufficient evidence to support the use of balloon sinuplasty for treating chronic rhinosinusitis and recurrent acute rhinosinusitis without nasal polyps that is refractory to medical management. However, definitive patient selection criteria for balloon sinuplasty have not been established (Hayes, September 2019, updated January 2021).

A Hayes Health Technology Assessment for Balloon Sinuplasty for Treatment of Chronic Rhinosinusitis in Pediatric Patients indicated that there is a small, low-quality body of evidence that suggests that pediatric patients with chronic rhinosinusitis treated with balloon sinuplasty have symptom relief and improved quality of life after balloon sinuplasty. No firm conclusions could be made regarding the safety of balloon sinuplasty in children because of limited evidence (Hayes, October 2019, updated January 2021).

**Modified Lund-Mackay Scoring System**

In a prospective multicenter study, Likness et al. (2014) evaluated CT scans of CRS patients using a novel objective 3D computerized system and compared results with a novel 2D computerized analysis of a single coronal slice through the osteomeatal complex (OMC) and subjective methods including Lund-Mackay and Zinreich’s modified Lund-Mackay. Forty-six adults with a diagnosis of CRS underwent CT examination and received an intramuscular triamcinolone injection, dosage weight dependent, followed by CT scan 4 to 5 weeks later. Scans were evaluated with all 4 scoring methods over 5 months. The Lin’s concordance class correlation (CCC) of the OMC method revealed the best correlation to the 3D volumetric computerized values (0.915), followed by the Zinreich (0.904) and Lund-Mackay methods (0.824). Posttreatment results demonstrated that both the OMC (0.824) and Zinreich’s (0.778) methods had strong agreement with the 3D volumetric methods and were very sensitive to change, whereas the Lund-Mackay (0.545) had only moderate agreement. The authors concluded that computerized CT analysis provides the most comprehensive, objective, and reproducible method of measuring disease severity and is very sensitive to change induced by treatment intervention. The authors stated that a 2D coronal image through the OMC provides a valid, user-friendly method of assessing CRS and is representative of CRS severity in all sinuses. According to the authors, Zinreich’s subjective method correlated well overall, but the Lund-Mackay method lagged behind in disease representation and sensitivity to change.

**Clinical Practice Guidelines**

*American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS)*

AAO-HNS developed a clinical consensus statement on the use of sinus ostial dilation (SOD) of the paranasal sinuses (Piccirillo et al., 2018). Due to limited evidence to support a guideline, the topic of SOD was selected for clinical consensus statement (CCS) development. An expert panel of otolaryngologists was assembled to represent general otolaryngology and relevant subspecialty societies. A modified Delphi method was used to distill expert opinion into clinical statements that met a standardized definition of consensus. After three Delphi method surveys, 13 statements met the standardized definition of consensus while 45 statements did not. Strong consensus was obtained for the following:

- Balloon dilation is not appropriate for patients who are without both sinonasal symptoms and positive findings on CT
- Balloon dilation is not appropriate for the management of headache or sleep apnea in patients who do not otherwise meet the criteria for chronic sinusitis or recurrent acute sinusitis

Additional statements that reached consensus include the following:

- CT scanning of the sinuses is a requirement before balloon dilation can be performed
- Balloon dilation is not appropriate for patients with sinonasal symptoms and a CT that does not show evidence of sinonasal disease
- Balloon dilation can be appropriate as an adjunct procedure to FESS in patients with chronic sinusitis without nasal polyps
- There is a role for balloon sinus dilation in managing patients with recurrent acute sinusitis as defined in the AAO-HNS guideline based on symptoms and the CT evidence of ostial occlusion and mucosal thickening
- Balloon dilation can improve short-term quality-of-life outcomes in patients with limited CRS without polyposis
• Balloon dilation can be effective in frontal sinusitis
• There can be a role for balloon dilation in patients with persistent sinus disease who have had previous sinus surgery.

As noted in the second consensus statement above, recurrent acute rhinosinusitis (RARS) may be considered an appropriate indication for SOD. The authors indicated that several prospectively collected database studies for SOD (Gould et al., 2014; Levine et al., 2013) included patients diagnosed with recurrent acute rhinosinusitis. According to the AAO-HNS consensus statement, these studies report improved sinonasal symptoms with balloon dilation, but they are limited by possible selection bias.

The AAO-HNS position statement, Dilation of Sinuses, Any Method (e.g., balloon) states the following (AAO-HNS, 2016):
• Sinus ostial dilation (e.g., balloon ostial dilation) is a therapeutic option for selected patients with chronic rhinosinusitis (CRS) and recurrent acute rhinosinusitis (RARS) who have failed appropriate medical therapy. Clinical diagnosis of CRS and RARS should be based on symptoms of sinusitis and supported by nasal endoscopy documenting sinonasal abnormality or mucosal thickening on computed tomography of the paranasal sinuses. This approach may be used alone to dilate an obstructed sinus ostium (frontal, maxillary, or sphenoid) or in conjunction with other instruments (e.g., microdebrider, forceps). The final decision regarding use of techniques or instrumentation for sinus surgery is the responsibility of the attending surgeon.

The AAO-HNS clinical pediatric chronic rhinosinusitis consensus statement concluded that “the effectiveness of balloon sinuplasty compared to traditional endoscopic sinus surgery for pediatric CRS cannot be determined based on current evidence” (Brietzke et al. 2014).

In 2015, the AAO-HNS updated the Clinical Practice Guideline (Update) for Adult Sinusitis. The AAO-HNS update group recommended that clinicians should confirm a clinical diagnosis of chronic rhinosinusitis (CRS) with objective documentation of sinonasal inflammation, which may be accomplished using direct visualization (anterior rhinoscopy or nasal endoscopy) or computed tomography (CT). CT may demonstrate abnormal mucosa and opacified sinuses. An important role of CT imaging in CRS is to exclude aggressive infections or neoplastic disease that might mimic CRS or acute rhinosinusitis (ARS). The AAO-HNS update panel indicated that clinicians should recommend saline nasal irrigation, topical intranasal corticosteroids, or both for symptom relief of chronic rhinosinusitis. Surgical management of CRS is not discussed “because of insufficient evidence (e.g., randomized controlled trials) for evidence-based recommendations” (Rosenfeld et al. 2015).


American Rhinologic Society (ARS)
The ARS states that sinus ostial dilation (e.g., balloon ostial dilation) is a therapeutic option for selected patients with chronic rhinosinusitis (CRS) and recurrent acute rhinosinusitis (RARS) who have failed appropriate medical therapy. Clinical diagnosis of CRS and RARS should be based on symptoms of sinusitis and supported by nasal endoscopy documenting sinonasal abnormality or mucosal thickening on computed tomography of the paranasal sinuses. This approach may be used alone to dilate an obstructed sinus ostium (frontal, maxillary, or sphenoid) or in conjunction with other instruments (e.g., microdebrider, forceps). The final decision regarding use of techniques or instrumentation for sinus surgery is the responsibility of the attending surgeon (ARS, 2017). This ARS position statement does not contain referenced clinical evidence.

American Academy of Allergy Asthma and Immunology (AAAAI)/ American College of Allergy Asthma and Immunology (ACAAI)/ Joint Council of Allergy Asthma and Immunology (JCAAI)
In a practice parameter for the diagnosis and management of rhinosinusitis, the AAAAI, ACAAI, and JCAAI recommends that ostial dilatation with a balloon should be considered in a small sub-segment of patients with medically unresponsive acute rhinosinusitis (ARS), primarily those with early or localized disease (strength of evidence D - directly based on category IV evidence or extrapolated recommendation from category I, II, or III evidence). According to the authors, there are different opinions regarding the extent of surgery that should be performed for chronic rhinosinusitis (CRS), ranging from a very minimal procedure or balloon dilatation of the affected ostia, to very complete opening of all the sinuses. The authors state that the standard teaching for the functional endoscopic approach is that the surgical procedure should extend beyond the margins of the ostiomeatal disease and the inflamed boney partitions should be removed. Although symptomatic improvement from
balloon dilation has been well documented, in general, patients selected for this approach have only minor disease, a significant proportion of which might be amenable to medical therapy alone. According to the authors, conclusions regarding long-term resolution of disease with minimal interventional approaches remain unproved. The authors state that it remains debatable whether balloon sinus ostial dilation is efficacious as an alternative to traditional functional endoscopic sinus surgery (FESS). In summary, balloon catheter technology has been shown as a safe method to dilate sinus ostia but no studies to date can conclude an advantage over FESS (Peters et al. 2014).

Regarding medical management for chronic rhinosinusitis, the AAAA, ACAAI, and JCAAI indicate that the role of antibiotics in chronic rhinosinusitis CRS is controversial. For CRS associated with suspected bacterial infection, a longer duration of therapy beyond the usual 10 to 14 days is suggested; the choice of appropriate antibiotic therapy may need to consider the possible presence of anaerobic pathogens. Because CRS is an inflammatory disease, intranasal corticosteroids (INSs) are indicated for treatment. Other adjunctive therapy, such as intranasal antihistamines, decongestants, saline irrigation, mucolytics, and expectorants, might provide symptomatic benefit in select cases (Peters et al. 2014).

**American College of Radiology (ACR)**

The ACR Appropriateness Criteria for Sinonasal Disease (ACR 2017) indicates the following:
- Noncontrast sinus computed tomography (CT) is indicated for evaluation of recurrent acute sinusitis (RARS) prior to surgical intervention or objective confirmation in cases of chronic recurrent rhinosinusitis.
- Most cases of uncomplicated acute and subacute rhinosinusitis are diagnosed clinically and should not require any imaging procedure.
- CT scanning provides the best preoperative information for endoscopic surgery, with excellent delineation of the complex ethmoidal anatomy, ostiomeatal unit, and anatomic variations, including the presence of sphenoidonal (Onodi) air cells, which increase the risk of injury to the optic nerves or carotid arteries.

**National Institute for Health and Care Excellence (NICE)**

In 2016, the National Institute for Health and Care Excellence (NICE) published guidance on XprESS multi sinus dilation system for treating chronic sinusitis. NICE indicated that the case for adopting the XprESS multi-sinus dilation system for treating uncomplicated chronic sinusitis is supported by the evidence. According to NICE, XprESS should be considered in patients with uncomplicated chronic sinusitis who do not have severe nasal polyposis. In these patients, XprESS works as well as FESS, is associated with faster recovery times, and can more often be done under local anesthesia (NICE, 2016).

**Self-Expanding Absorptive Sinus Ostial Dilation**

The evidence is insufficient to support the use of self-expanding absorptive sinus ostial dilation devices. Studies with control groups are needed to demonstrate the efficacy of these devices.

Hathorn et al. (2014) conducted a pilot study to determine the safety and performance of a maxillary sinus ostium (MSO) self-dilation device. Twelve CRS patients presenting with maxillary sinus inflammation requiring FESS were enrolled. The device was inserted into the MSO at the start of surgery and removed after 60 minutes. Endoscopic evaluation for patency was performed immediately after removal, and at 1 week, 1 month, and 3 months. Adverse events were recorded intraoperatively and at each subsequent visit. The device was successfully inserted in 100% of cases attempted (19/19 MSOs, 12 patients). Seventeen (89%) devices remained in the MSO for 60 minutes and dilated to a mean diameter of 4.8 ± 0.5 mm. One patient was withdrawn from the study. No adverse events occurred during insertion or removal of the device. At 3 months postinsertion 14 of 15 MSO dilated (93%) were confirmed patent. The investigators concluded that the placement of an osmotic self-dilating expansion device in human MSO is safe, achievable and effective at dilating the ostia. This study is limited by a small sample size and lack of a comparison group.

**U.S. Food and Drug Administration (FDA)**

This section is to be used for informational purposes only. FDA approval alone is not a basis for coverage.

The FDA classifies devices used for balloon catheter dilation for treating chronic sinusitis under product code LRC (instrument, ENT, manual surgical). This is a broad product code category that includes a variety of devices used in ear, nose, and throat surgeries (e.g., knives, hooks, injection systems, dilation devices). Additionally, this product code is 510(k)-exempt. Although
manufacturers may voluntarily submit product information via the 510(k) process, it is not a requirement. All manufacturers are, however, required to register their establishment and submit a “Device Listing” form; these records can be viewed in the Registration and Device Listing Database (search by product code, device, or manufacturer name). See the following website for more information: http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfRL/rl.cfm. (Accessed June 21, 2021)

In 2013, the FDA granted 510k clearance to the SinuSys Vent-OS Sinus Dilation System for dilation of the maxillary sinus ostia and associated spaces in adults. See the following for more information: https://www.accessdata.fda.gov/cdrh_docs/pdf13/K133016.pdf. (Accessed June 21, 2021)


**Additional Products**


**References**


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**Balloon Sinus Ostial Dilation**

UnitedHealthcare Commercial Medical Policy

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Effective 08/01/2021


Policy History/Revision Information

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