

Balloon Ostial Dilation

Disclaimer

Clinical guidelines are developed and adopted to establish evidence-based clinical criteria for utilization management decisions. Clinical guidelines are applicable according to policy and plan type. The Plan may delegate utilization management decisions of certain services to third parties who may develop and adopt their own clinical criteria.

Coverage of services is subject to the terms, conditions, and limitations of a member's policy, as well as applicable state and federal law. Clinical guidelines are also subject to in-force criteria such as the Centers for Medicare & Medicaid Services (CMS) national coverage determination (NCD) or local coverage determination (LCD) for Medicare Advantage plans. Please refer to the member's policy documents (e.g., Certificate/Evidence of Coverage, Schedule of Benefits, Plan Formulary) or contact the Plan to confirm coverage.

Summary

The Plan considers surgical treatment for chronic rhinosinusitis medically necessary in patients who fail attempts at medical therapy such as antibiotics, intranasal steroids, systemic steroids, and/or saline irrigation. Traditional functional endoscopic sinus surgery (FESS) is a minimally invasive surgical technique that opens up and drains the sinus air cells and sinus passages under direct visualization.

Balloon ostial dilation (BOD), also known as balloon sinuplasty or balloon catheter sinusotomy, is a newer minimally invasive endoscopic technique that has been proposed as an alternative to or in addition to FESS for the surgical management of chronic rhinosinusitis. This technique involves using a balloon to dilate the sinus ostia to improve sinus drainage. Potential benefits of BOD include outflow tract enlargement with preservation of normal anatomy, excellent mucosal sparing, minimal intraoperative bleeding, and less discomfort than traditional sinus surgery. BOD may be used as a standalone procedure, but it is most frequently used in combination with FESS, which is also known as a "hybrid" technique.

Studies have confirmed the safety and efficacy of balloon ostial dilation in patients who have failed medical therapy. Balloon dilation also has some advantages when compared to FESS in terms of recovery time and degree of postoperative pain.

Definitions

“Rhinosinusitis” is defined as an inflammatory condition of one or more of the paranasal sinuses and nasal passages. Rhinosinusitis can be further classified based on acuity (acute vs. chronic), anatomical location (involvement of the maxillary, ethmoid, frontal, or sphenoid sinuses), and severity (uncomplicated vs. complicated).

- “Acute rhinosinusitis (ARS)” is an inflammatory condition of one or more of the paranasal sinuses and nasal passages (“rhinosinusitis”) that lasts up to 4 weeks.
- “Recurrent acute rhinosinusitis (RARS)” is defined as at least 4 episodes of acute rhinosinusitis in a 1 year period. Patients are asymptomatic between episodes. Even though the summed duration of all episodes may be greater than 12 weeks, this is differentiated from chronic rhinosinusitis in that each single episode is still less than 4 weeks long.
- “Chronic Rhinosinusitis (CRS)” is an inflammatory condition of one or more of the paranasal sinuses and nasal passages (“rhinosinusitis”) that persists for 12 weeks or longer.

“Functional Endoscopic Sinus Surgery (FESS)” is a minimally invasive surgical technique to improve the drainage pathways of the paranasal sinuses. It is performed with an endoscope inserted into the nasal cavity to allow for direct visualization of sinus anatomy.

“Hybrid Technique” is the combination of traditional endoscopic sinus surgery and balloon ostial dilation techniques during a single procedure.

Clinical Indications

Chronic Rhinosinusitis

The Plan considers balloon ostial dilation medically necessary when ALL of the following criteria are met:

1. Patient 18 years of age and older; *and*
2. Documented persistent chronic rhinosinusitis for at least 12 weeks with two or more of the following signs or symptoms:
 - a. Mucopurulent drainage (not clear drainage); *and/or*
 - b. Nasal obstruction (congestion); *and/or*
 - c. Facial pain, pressure, or fullness (differentiated from headaches); *and/or*
 - d. Decreased sense of smell; *and*
3. Documented failure of medical therapy despite treatment with:
 - a. A trial of at least TWO different oral antibiotics (e.g., amoxicillin-clavulanate, cefpodoxime, clindamycin, doxycycline, levofloxacin, metronidazole, etc.) unless there is a specific contraindication, severe adverse reaction, or cause of rhinosinusitis is a viral illness; *and*
 - b. A trial of at least TWO of the following topical intranasal therapies for a minimum of 4+ weeks each:
 - i. Intranasal steroids; *or*
 - ii. Saline irrigations; *or*
 - iii. Antihistamine spray.

4. Allergic rhinitis has been adequately ruled out or treated appropriately with medications and/or documented lifestyle changes; *and*
5. Confirmation of chronic rhinosinusitis by CT scan radiology report as demonstrated by the presence of at least ONE of the following:
 - a. Mucosal thickening; *or*
 - b. Bony remodeling or thickening; *or*
 - c. Sinus opacification; *or*
 - d. Obstruction of the ostiomeatal complex.
6. Dilation is limited to the maxillary, frontal, or sphenoid sinuses; *and*
7. If a balloon ostial dilation is performed in conjunction with a functional endoscopic sinus surgery (FESS) in the same sinus cavity for a member without nasal polyps, it must meet above Chronic Rhinosinusitis criteria and MCG (A-0185) Functional Endoscopic Sinus Surgery (FESS) criteria.

Recurrent Acute Rhinosinusitis

The Plan considers balloon ostial dilation medically necessary when ALL of the following criteria are met:

1. Patient 18 years of age and older; *and*
2. Documented recurrent acute rhinosinusitis of at least 4 episodes in a 12 month rolling period with asymptomatic periods in between episodes; *and*
3. Documented recurrence of symptoms despite optimal prior medical therapy with:
 - a. Oral antibiotic therapy (e.g., amoxicillin, amoxicillin-clavulanate, etc.) unless specific contraindication, or severe adverse reaction, or cause of rhinosinusitis is viral illness; *and*
 - b. A trial of at least TWO of the following topical intranasal therapies for a minimum of 4+ weeks each:
 - i. Intranasal steroids; *or*
 - ii. Saline irrigations; *or*
 - iii. Antihistamine spray.
4. Allergic rhinitis has been adequately ruled out or treated appropriately with medications and/or documented lifestyle changes; *and*
5. Confirmation of acute rhinosinusitis that would be reasonably expected to improve after surgical treatment, based on CT imaging radiology report results during an acute episode; *and*
6. Dilation is limited to the maxillary, frontal, or sphenoid sinuses; *and*
7. If a balloon ostial dilation is performed in conjunction with a functional endoscopic sinus surgery (FESS) in the same sinus cavity for a member without nasal polyps, it must meet above Recurrent Acute Rhinosinusitis criteria and MCG (A-0185) Functional Endoscopic Sinus Surgery (FESS) criteria.

Experimental or Investigational / Not Medically Necessary

The Plan considers balloon ostial dilation experimental and investigational for all other conditions, including but not limited to those listed here, as its safety and efficacy have not been clearly established in the published clinical literature:

- Nasal polyps
- Tumors
- Acute rhinosinusitis
- Aspirin sensitivity
- Sinusitis secondary to autoimmune or connective tissue disorders
- Sinusitis secondary to ciliary dysfunction (e.g., cystic fibrosis)
- Isolated ethmoid sinus disease
- Sleep apnea without chronic sinusitis symptoms and imaging findings
- Headache without chronic sinusitis symptoms and imaging findings

The Plan considers balloon ostial dilation experimental and investigational in children 17 years of age and younger as there is insufficient evidence to determine its effectiveness in this population.

The Plan considers the use of self-expanding absorptive sinus ostial dilation devices experimental and investigational as the safety and efficacy have not been clearly established in the published clinical literature

Balloon sinus ostial dilation used adjunctively during functional endoscopic sinus surgery (FESS) in the same sinus cavity is considered integral to the primary procedure and not separately reimbursable. Similarly, when balloon dilation and sinus tissue removal are performed as part of the same surgery, only one code will be considered reimbursable.

Acute Rhinosinusitis

There are several case reports in the literature (Roland et al. 2015; Zhao et al. 2016; Hopkins et al. 2009) and one small retrospective case series (Wittkopf et al. 2009) addressing the use of balloon dilation in cases of acute sinusitis, with or without associated complication. The results of these reports are interesting but do not provide objective data, statistics, or long-term follow up to allow a conclusion that is generalizable to the standard acute rhinosinusitis patient. Further studies that provide clinical data based on randomized trials comparing medical therapy to balloon ostial dilation for acute rhinosinusitis and traditional FESS to balloon dilation for complicated acute disease are needed to make any scientific conclusions.

Chronic Rhinosinusitis in Patients 17 Years-of-Age and Younger

A consensus statement from the American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS) on the use of balloon sinuplasty for the treatment of pediatric chronic rhinosinusitis concluded that the effectiveness cannot be determined based on current evidence. The current literature includes a nonrandomized prospective study (Ramadan et al. 2011), a retrospective case control study (Wang et al. 2015), a retrospective cohort study (Thottam et al. 2016), and several case reports that have suggested that balloon catheter sinuplasty is safe and might be as effective as FESS in children with

chronic or acute rhinosinusitis, but larger, prospective, randomized control trials with long term follow up are needed to determine the true efficacy in this population.

Applicable Billing Codes (HCPCS & CPT Codes)

Codes considered medically necessary if clinical criteria are met:

CPT/HCPCS Codes considered medically necessary if criteria are met:	
<i>Code</i>	<i>Description</i>
31295	Nasal/sinus endoscopy, surgical, with dilation (eg, balloon dilation); maxillary sinus ostium, transnasal or via canine fossa
31296	Nasal/sinus endoscopy, surgical, with dilation (eg, balloon dilation); frontal sinus ostium
31297	Nasal/sinus endoscopy, surgical, with dilation (eg, balloon dilation); sphenoid sinus ostium
31298	Nasal/sinus endoscopy, surgical, with dilation (eg, balloon dilation); frontal and sphenoid sinus ostia
69705	Nasopharyngoscopy, surgical, with dilation of eustachian tube (ie, balloon dilation); unilateral
69706	Nasopharyngoscopy, surgical, with dilation of eustachian tube (ie, balloon dilation); bilateral

Codes not considered medically necessary for indications listed in this Guideline:

CPT/HCPCS codes not considered medically necessary:	
<i>Code</i>	<i>Description</i>
31299	Unlisted procedure, accessory sinuses
J7401	Mometasone furoate sinus implant, (Sinuva), 10 mcg

References

1. American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS). Statement on Reimbursement of Balloon Sinus Ostial Dilation. September 2014.
2. American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS). Position Statement: Dilation of sinuses, any method (e.g., balloon, etc.). March 2017.
3. Achar P, Duvvi S, Kumar BN. Endoscopic dilatation sinus surgery (FEDS) versus functional endoscopic sinus surgery (FESS) for treatment of chronic rhinosinusitis: a pilot study. Acta Otorhinolaryngol Ital. 2012; 32(5):314-319.
4. Albritton FD 4th, Casiano RR, Sillers MJ. Feasibility of in-office endoscopic sinus surgery with balloon sinus dilation. Am J Rhinol Allergy. 2012; 26(3):243-248.

5. Bikhazi N, Light J, Truitt T, et al.; REMODEL Study Investigators. Standalone balloon dilation versus sinus surgery for chronic rhinosinusitis: a prospective, multicenter, randomized, controlled trial with 1-year follow-up. *Am J Rhinol Allergy*. 2014; 28(4):323-329.
6. Bolger WE, Brown CL, Church CA, et al. Safety and outcomes of balloon catheter sinusotomy: a multicenter 24-week analysis in 115 patients. *Otolaryngol Head Neck Surg*. 2007; 137(1):10-20.
7. Bolger, W.E., et al., Safety and Outcomes of Balloon Catheter Sinusotomy: A Multicenter 24-Week Analysis in 115 Patients. *Otolaryngology—Head and Neck Surgery*, 2007. 137(1): p. 10-20.
8. Brietzke SE, Shin JJ, Choi S, et al. Clinical consensus statement: pediatric chronic rhinosinusitis. *Otolaryngol Head Neck Surg*. 2014 Oct;151(4):542-53.
9. Brodner D, Nachlas N, Mock P, et al. Safety and outcomes following hybrid balloon and balloon-only procedures using a multifunction, multisinus balloon dilation tool. *Int Forum Allergy Rhinol*. 2013; 3(8):652-658.
10. Brown CL, Bolger WE. Safety and feasibility of balloon catheter dilation of paranasal sinus ostia: a preliminary investigation. *Ann Otol Rhinol Laryngol*. 2006; 115(4):293-299.
11. Brook, I. (April 2022). *Microbiology and antibiotic management of chronic rhinosinusitis*. UpToDate.com. Accessed May 23, 2023
https://www.uptodate.com/contents/microbiology-and-antibiotic-management-of-chronic-rhinosinusitis?search=treatment%20of%20chronic%20sinusitis&source=search_result&selectedTitle=1~150&usage_type=default&display_rank=1#H680941466
12. Catalano, P.J. and S.C. Payne, Balloon Dilation of the Frontal Recess in Patients With Chronic Frontal Sinusitis and Advanced Sinus Disease: An Initial Report. *Annals of Otolaryngology & Laryngology*, 2009. 118(2): p. 107-112.
13. Chandra RK, Kern RC, Cutler JL, et al. REMODEL larger cohort with long-term outcomes and meta-analysis of standalone balloon dilation studies. *Laryngoscope*. 2016; 126(1):44-50.
14. Christmas DA, Mirante JP, Yanagisawa E. Endoscopic view of balloon catheter dilation of sinus ostia (balloon sinuplasty). *Ear Nose Throat J*. 2006; 85(11):698, 700.
15. Cingi, C., Muluk, N. B., & Lee, J. T. (2019). Current indications for balloon sinuplasty. *Current Opinion in Otolaryngology & Head and Neck Surgery*, 27(1), 7-13.
16. Bikhazi N, Light J, Truitt T, et.al. Standalone balloon dilation versus sinus surgery for chronic rhinosinusitis: A prospective, multicenter, randomized, controlled trial with 1-year follow-up. *Am J Rhinol Allergy* 2014; 28(4): 323-329.
17. Cutler J, Truitt T, Atkins J, et al. First clinic experience: patient selection and outcomes for ostial dilation for chronic rhinosinusitis. *Int Forum Allergy Rhinol*. 2011; 1(6):460-465.
18. Friedman M, Schalch P, Lin HC, et al. Functional endoscopic dilatation of the sinuses: patient satisfaction, postoperative pain, and cost. *Am J Rhinol*. 2008; 22(2):204-209.
19. Friedman, M., et al., Functional endoscopic dilatation of the sinuses: Patient satisfaction, postoperative pain, and cost. *American Journal of Rhinology*, 2008. 22(2): p. 204-9.
20. Gould J, Alexander I, Tomkin E, Brodner D. In-office, multisinus balloon dilation: 1-Year outcomes from a prospective, multicenter, open label trial. *Am J Rhinol Allergy*. 2014; 28(2):156-163.

21. Hathorn IF, Pace-Asciak P, Habib AR, et al. Randomized controlled trial: hybrid technique using balloon dilation of the frontal sinus drainage pathway. *Int Forum Allergy Rhinol.* 2015; 5(2):167-173.
22. Hamilos DL, Holbrook EH. (2022). Chronic rhinosinusitis: Management. UpToDate.com. Last updated Sep 19, 2022. Retrieved on May 23, 2023 from https://www.uptodate.com/contents/chronic-rhinosinusitis-management?search=balloon%20ostial%20dilation&source=search_result&selectedTitle=1~2&usage_type=default&display_rank=1#H9622221
23. Hayes, Inc. Health Technology Assessment. Balloon Sinuplasty for Treatment of Chronic Rhinosinusitis in Adult Patients. Lansdale, PA: Hayes, Inc.; January 4, 2021.
24. Heimgartner S, Eckardt J, Simmen D, et al. Limitations of balloon sinuplasty in frontal sinus surgery. *Eur Arch Otorhinolaryngol.* 2011; 268(10):1463-1467.
25. Hessler JL, Piccirillo JF, Fang D, et al. Clinical outcomes of chronic rhinosinusitis in response to medical therapy: results of a prospective study. *Am J Rhinol.* 2007; 21(1):10-18.
26. Hopkins C, Noon E, Bray D, Roberts D. Balloon sinuplasty: our first year. *J Laryngol Otol.* 2011; 125(1):43-52.
27. Hopkins C, Noon E, Roberts D. Balloon sinuplasty in acute frontal sinusitis. *Rhinology.* 2009 Dec;47(4):375-8.
28. Hopkins, C.N., Edward; Roberts, David, Balloon sinuplasty in acute frontal sinusitis. *Rhinology,* 2009. 47(4): p. 375-378.
29. Karanfilov B, Silvers S, Pasha R, et al. Office-based balloon sinus dilation: a prospective, multicenter study of 203 patients. *Int Forum Allergy Rhinol.* 2013; 3(5):404-411.
30. Kuhn FA, Church CA, Goldberg AN, et al. Balloon catheter sinusotomy: one-year follow-up—outcomes and role in functional endoscopic sinus surgery. *Otolaryngol Head Neck Surg.* 2008; 139(3 Suppl 3):S27-37.
31. Lefevre F, Rosenberg AB. Balloon dilatation of the frontal recess: a randomized clinical trial. *Ann Otol Rhinol Laryngol.* 2012; 121(10):700.
32. Levine AB, Truitt TT, Schwartz M, Atkins J. In-office stand-alone balloon dilation of maxillary sinus ostia and ethmoid infundibula in adults with chronic or recurrent acute rhinosinusitis: a prospective, multi-institutional study with 1-year follow-up. *Ann Otol Rhinol Laryngol.* 2013; 122(11):665-671.
33. Levine HL, Sertich AP 2nd, Hoisington DR, et al.; PatiENT Registry Study Group. Multicenter registry of balloon catheter sinusotomy outcomes for 1,036 patients. *Ann Otol Rhinol Laryngol.* 2008; 117(4):263-270.
34. Levine, H.L., et al., Multicenter Registry of Balloon Catheter Sinusotomy Outcomes for 1,036 Patients. *Annals of Otolaryngology, Rhinology & Laryngology,* 2008. 117(4): p. 263-270.
35. Lofgren, D. H., & Shermetaro, C. (2022). Balloon Sinuplasty. In *StatPearls.* StatPearls Publishing.
36. Marzetti A, Tedaldi M, Passali FM. The role of balloon sinuplasty in the treatment of sinus headache. *Otolaryngol Pol.* 2014; 68(1):15-19.
37. Meltzer, E.O., et al., Rhinosinusitis: Establishing definitions for clinical research and patient care. *Journal of Allergy and Clinical Immunology,* 2004. 114(6, Supplement): p. 155-212.

38. Peters AT, Spector S, Hsu J, et al. Diagnosis and management of rhinosinusitis: a practice parameter update. *Ann Allergy Asthma Immunol.* 2014 Oct;113(4):347-85.
39. Piccirillo JF, Merritt MG Jr, Richards ML. Psychometric and clinimetric validity of the 20-Item Sino-Nasal Outcome Test (SNOT-20). *Otolaryngol Head Neck Surg.* 2002; 126(1):41-47.
40. Piccirillo JF, Payne SC, Rosenfeld RM, et al. (2018). Clinical Consensus Statement: Balloon Dilation of the Sinuses. *Otolaryngol Head Neck Surg, 158(2)*, 203-214.
41. Plaza G, Eisenberg G, Montojo J, et al. Balloon dilatation of the frontal recess: a randomized clinical trial. *Ann Otol Rhinol Laryngol.* 2011; 120(8):511-518.
42. Ramadan HH, Bueller H, Hester ST, Terrell AM. Sinus balloon catheter dilation after adenoidectomy failure for children with chronic rhinosinusitis. *Arch Otolaryngol Head Neck Surg.* 2012; 138(7):635-637.
43. Ramadan HH, McLaughlin K, Josephson G, et al. Balloon catheter sinuplasty in young children. *Am J Rhinol Allergy.* 2010; 24(1):e54-56.
44. Ramadan HH, Terrell AM. Balloon catheter sinuplasty and adenoidectomy in children with chronic rhinosinusitis. *Ann Otol Rhinol Laryngol.* 2010 Sep;119(9):578-82.
45. Ramadan HH. Safety and feasibility of balloon sinuplasty for treatment of chronic rhinosinusitis in children. *Ann Otol Rhinol Laryngol.* 2009 Mar;118(3):161-5.
46. Roland LT, Wineland AM, Leonard DS. Balloon frontal sinuplasty for intracranial abscess in a pediatric acute sinusitis patient. *Int J Pediatr Otorhinolaryngol.* 2015 Mar;79(3):432-4.
47. Rosenfeld RM, Piccirillo JF, Chandrasekhar SS, et al. Clinical practice guideline (update): adult sinusitis. *Otolaryngol Head Neck Surg.* 2015;152(2 Suppl):S1-S39.
48. Sedaghat, A.R. and M.J. Cunningham, Does balloon catheter sinuplasty have a role in the surgical management of pediatric sinus disease? *The Laryngoscope*, 2011. 121(10): p. 2053-2054.
49. Sikand A, Silvers SL, Pasha R, et al.; ORIOS 2 Study Investigators. Office-based balloon sinus dilation: 1-year follow-up of a prospective, multicenter study. *Ann Otol Rhinol Laryngol.* 2015; 124(8):630-637.
50. Soler ZM, Rosenbloom JS, Skarada D, Gutman M, Hoy MJ, Nguyen SA. Prospective, multicenter evaluation of balloon sinus dilation for treatment of pediatric chronic rhinosinusitis. *Int Forum Allergy Rhinol.* 2016 Nov 26.
51. Stankiewicz J, Tami T, Truitt T, et al. Transantral, endoscopically guided balloon dilatation of the ostiomeatal complex for chronic rhinosinusitis under local anesthesia. *Am J Rhinol Allergy.* 2009; 23(3):321-327.
52. Stankiewicz J, Truitt T, Atkins J Jr. One-year results: Transantral balloon dilation of the ethmoid infundibulum. *Ear Nose Throat J.* 2010; 89(2):72-77.
53. Stankiewicz J, Truitt T, Atkins J, et al. Two-year results: transantral balloon dilation of the ethmoid infundibulum. *Int Forum Allergy Rhinol.* 2012; 2(3):199-206.
54. Stewart, A. and W. Vaughan, Balloon Sinuplasty Versus Surgical Management of Chronic Rhinosinusitis. *Current Allergy and Asthma Reports*, 2010. 10(3): p. 181-187.
55. Terrell, A.M.M.D., Balloon Catheter Sinuplasty and Adenoidectomy in Children With Chronic Rhinosinusitis. *The Annals of Otology, Rhinology & Laryngology*, 2010. 119(9): p. 578-82.

56. Thottam PJ, Hauptert M, Saraiya S, Dworkin J, Sirigiri R, Belenky WM. Functional endoscopic sinus surgery (FESS) alone versus balloon catheter sinuplasty (BCS) and ethmoidectomy: a comparative outcome analysis in pediatric chronic rhinosinusitis. *Int J Pediatr Otorhinolaryngol*. 2012 Sep;76(9):1355-60.
57. Thottam PJ, Metz CM, Kieu MC, Dworkin J, Jagini J, Bangiyev JN, Mehta D. Functional Endoscopic Sinus Surgery Versus Balloon Sinuplasty with Ethmoidectomy: A 2-year Analysis in Pediatric Chronic Rhinosinusitis. *Indian J Otolaryngol Head Neck Surg*. 2016 Sep;68(3):300-6.
58. Tomazic PV, Stammberger H, Braun H, et al. Feasibility of balloon sinuplasty in patients with chronic rhinosinusitis: the Graz experience. *Rhinology*. 2013; 51(2):120-127.
59. Weiss RL, Church CA, Kuhn FA, et al. Long-term outcome analysis of balloon catheter sinusotomy: two-year follow-up. *Otolaryngol Head Neck Surg*. 2008; 139(3 Suppl 3):S38-S46.
60. Wittkopf ML, Becker SS, Duncavage JA, Russell PT. Balloon sinuplasty for the surgical management of immunocompromised and critically ill patients with acute rhinosinusitis. *Otolaryngol Head Neck Surg*. 2009; 140(4):596-598.
61. Zhao Y, Chen K, Wang Z. Sinus Balloon Dilation as Treatment for Acute Sphenoid Sinusitis with Impaired Vision for a Child. *Case Rep Med*. 2016;2016:5209243. doi: 10.1155/2016/5209243. Epub 2016 Feb 24.
62. Levy JM, Marino MJ, McCoul ED. Paranasal sinus balloon catheter dilation for treatment of chronic rhinosinusitis: a systematic review and meta-analysis. *Otolaryngol Head Neck Surg*. 2016; 154(1):33-40.
63. American Rhinologic Society. Ostial balloon dilation position statement. March 14, 2017. Available at: <https://www.american-rhinologic.org/position-statements>. Accessed on May 23, 2019.

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