



Utilization *ALERT*

- Prior to use of this MCP for evaluation of medical necessity, benefit coverage MUST be verified in the member's EOC or benefit document.
- This MCP also applies to Medicare members due to absence of current national and local coverage determinations from CMS.
- Note: After searching the Medicare Coverage Database, if no NCD/LCD/LCA is found, then use the policy referenced above for coverage guidelines

I. Procedure / Service: Sialendoscopy is the endoscopic balloon dilation and visualization of major salivary glands. The procedure is medically appropriate for both diagnosing and treating inflammatory and obstructive pathology within the ductal system

II. Specialty: Ordering of both diagnostic and therapeutic sialoendoscopy applications is limited to otolaryngology.

III. Indications

Diagnostic and interventional applications of Sialendoscopy is limited to the following conditions:

- A. Sialolithiasis and diagnosis/treatment of recurrent salivary gland swelling of unclear origin, including removal of salivary stones within the following dimensions:
 1. < 4 mm from submandibular gland;
 2. < 3 mm parotid gland;
 3. Larger stones (usually between 4 and 7 mm in either gland) are reviewed on a case-by-case basis to determine the optimal therapies.
- B. Sialadenitis from radiation, autoimmune disease, recurrent parotitis in children and for strictures;
- C. Sialendoscopy may be used to assist with external procedures and for trauma to salivary ducts;
- D. In combination with Sialodochoplasty (balloon angioplasty of the salivary duct, salivary duct stenting and marsupialization/exteriorizing a portion of a stenotic papilla or duct).

IV. Exclusions/Restrictions

- A. Diagnostic sialendoscopy is generally contraindicated in acute sialadenitis, requiring extensive risk/benefit review.
- B. Other procedures considered to be experimental and investigational: extracorporeal shock wave lithotripsy, elastography, and endoscopic intracorporeal shock wave lithotripsy



References

1. Al-Abri R, Marchal F. New era of endoscopy approach for Sialolithiasis: Sialendoscopy. Sultan Qaboos Univ Med J Dec 2010; 10(3): 382-7.
2. Schwartz N, Hazkani I, Goshen S. Combined approach sialendoscopy for management of submandibular sialolithiasis. Am J Otolaryngol. Sep 2015; 36(5):632-5.
3. Walvekar RR, Meyers AD, Mitchel J. Sialendoscopy, Overview. Medscape. 2016. WebMD LLC. Accessed 4/21/2016.
4. Woo SH, Kim JP, Kim JS, Jeong HS. Anatomical recovery of the duct of the submandibular gland after transoral removal of a hilar stone without sialodochoplasty: Evaluation of a phase II clinical trial. Br J Oral Maxillofac Surg. 2014;52(10):951-956.
5. Cordesmeyer, Robert; Winterhoff, Jan; Kauffmann, Philipp; Laskawi, Rainer. Sialoendoscopy as a diagnostic and therapeutic option for obstructive diseases of the large salivary glands-a retrospective analysis. Clinical Oral Investigations. Jun2016, Vol. 20 Issue 5, p1065-1070. 6p. DOI: 10.1007/s00784-015-1588-z.
6. Achim V; Light TJ; Andersen PE. Gland Preservation in Patients Undergoing Sialendoscopy (English): Otolaryngology – Head and Neck Surgery. Official Journal of American Academy of Otolaryngology – Head and Neck Surgery [Otolaryngol Head Neck Surg], ISSN: 1097-6817, 2017 Jul; Vol 157 (1), pp.53-57; Publisher: Sage; PMID: 28669304.
7. Jan Rotnágl, Šárka Zavázalová, Olexii Vorobiov, and Jaromír Astl. Sialendoscopy and Combined Minimally Invasive Treatment for Parotid Stones Biomed Res Int. 2016 Nov 2. doi: 10.1155/2016/1354202.
8. Cox D, Chan L, Veivers D. Prognostic factors for therapeutic sialendoscopy The Journal of Laryngology & Otology. 2018 Mar; 132(3):275-278. doi: 10.1017/S0022215117000822. Epub 2017 May
9. Erkul, Evren; Çekin, Engin; Güngör, Atila. Long-Term Outcomes of Sialendoscopy in the Management of Sialolithiasis and Idiopathic Chronic Sialadenitis with Ductal Scars. Turkish Archives of Otolaryngology / Türk Otolarengoloji Arsivi , Jun2019, Vol. 57 Issue 2, p75-80, 6p. Publisher: Turkish Otorhinolaryngology & Head & Neck Surgery Foundation.
10. Koch, M., Schapher, M. L., Mantsopoulos, K., Goncalves, M., & Iro, H. (2020). Simultaneous Application of Ultrasound and Sialendoscopy and its Value in the Management of Sialolithiasis. Simultane Anwendung von Ultraschall und Sialendoskopie: Wertigkeit in Diagnostik und Therapie von Speichelsteinen. *Ultraschall in der Medizin (Stuttgart, Germany: 1980)*, 10.1055/a-1270-7174. Advance online publication. <https://doi.org/10.1055/a-1270-7174>.
11. Koch, M., Schapher, M., Mantsopoulos, K., & Iro, H. (2020). Intraductal Lithotripsy in Sialolithiasis Using the Calculase III™ Ho:YAG Laser: First Experiences. *Lasers in surgery and medicine*, 10.1002/lsm.23325. Advance online publication. <https://doi.org/10.1002/lsm.23325>
12. Ozdemir S. (2020). Outcomes of Pneumatic Lithotripsy Versus Holmium Laser-Assisted Lithotripsy With Sialendoscopy in Management of Submandibular Sialolithiasis. *The Journal of craniofacial surgery*, 31(7), 1974–1977. <https://doi.org/10.1097/SCS.0000000000006607>



13. Bannikova, K. A.; Bosykh, Yu. Yu.; Gaitova, V. G.; Sysolyatin, P. G.; Sysolyatin, S. P. Indications for the Use of Sialoendoscopy in Sialolithiasis. *Medical Technologies in Medicine / Sovremennye Tekhnologii v Medicine*. 2020, Vol. 12 Issue 3, p41-45. 5p. DOI: 10.17691/stm2020.12.3.05.
14. A. Delagranda, M. Bohrer, C. Ferdynus, A. Waubant, X. Dufour, F. Rubin. Medical analysis of the contribution of sialendoscopy in managing non-tumoral main salivary gland pathology in Reunion Island: Observational study following STROBE guidelines, *European Annals of Otorhinolaryngology, Head and Neck Diseases*, 2021, ISSN 1879-7296. <https://doi.org/10.1016/j.anrol.2021.10.005>.
<https://www.sciencedirect.com/science/article/pii/S1879729621002532>
15. Jan Rotnágl, Šárka Zavázalová, Olexii Vorobiov, Jaromír Astl, "Sialendoscopy and Combined Minimally Invasive Treatment for Large Parotid Stones", *BioMed Research International*, vol. 2016, Article ID 1354202, 5 pages, 2016. <https://doi.org/10.1155/2016/1354202>
<https://www.hindawi.com/journals/bmri/2016/1354202/>
16. P. Capaccio, S. Torretta, M. Koch et al. Salivary lithotripsy in the era of sialendoscopy. *Acta Otorhinolaryngologica Italica*. 2017 Apr; 37(2): 113–121. doi: [10.14639/0392-100X-1600](https://doi.org/10.14639/0392-100X-1600). PMCID: PMC5463518. MID: [28516973](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5463518/#!po=64.8148y).
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5463518/#!po=64.8148y>
17. Erkul et al. Long-Term Outcomes of Sialendoscopy. *Turkish Archives of Otorhinolaryngology Turk Arch* 2019; 57(2): 75-80Y. https://cms.galenos.com.tr/Uploads/Article_43097/tao-57-75-En.pdf
18. Yucel et al. Predictors of Success in Sialendoscopy. *Surgical Sciences* 74 (Suppl 1) 59-64. 2021. DOI 10.4274/ atfm.galenos.2021.83723.
https://cms.galenos.com.tr/Uploads/Article_48939/ATFM-71-59-En.pdf
19. Kowalczyk, D; Jordan, R; Stringer, S. *Cost-Effectiveness of Sialendoscopy Versus Medical Management for Radioiodine-Induced Sialadenitis*. The Laryngoscope VC2018 The American Laryngological. Volume 128, Issue 8 Aug 2018 pages i-vi, 1739-1984, E271-E302
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/lary.27182>
20. Melo, G. M., Neves, M. C., Rosano, M., Vanni, C. M. R. S., Abrahao, M., & Cervantes, O. (2022). Quality of life after sialendoscopy: prospective non-randomized study. *BMC surgery*, 22(1), 11.
<https://doi.org/10.1186/s12893-021-01462-2>
21. Pascoto, G. R., Gasparin, A. A., Piltcher, O. B., Kuhl, G., & Cavazzola, L. T. (2021). Sialendoscopy for Improvement of Salivary Flow in Patients with Sjögren Syndrome - Comparative Analysis of Intraglandular Washing Solutions. *International Archives of Otorhinolaryngology*, 25(1), e6–e11.
<https://doi.org/10.1055/s-0040-1716574>
22. Carta, F., Farneti, P., Cantore, S., Macrì, G., Chuchueva, N., Cuffaro, L., Pasquini, E., & Puxeddu, R. (2017). Sialendoscopy for salivary stones: principles, technical skills, and therapeutic experience. Il ruolo della scialoendoscopia nel trattamento delle litiasi salivari: principi di base, aspetti tecnici ed esperienza clinica. *Acta otorhinolaryngologica Italica : organo ufficiale della Società italiana di otorinolaringologia e chirurgia cervico-facciale*, 37(2), 102–112.
<https://doi.org/10.14639/0392-100X-1599>
23. Karagozoglu, K. H., Vissink, A., Forouzanfar, T., de Visscher, J. G. A. M., Maarse, F., Brand, H. S., van de Ven, P. M., & Jager, D. H. J. (2021). Sialendoscopy increases saliva secretion and reduces



KAISER PERMANENTE®
Mid-Atlantic States

Sialendoscopy (or Sialoendoscopy)

Medical Coverage Policy

xerostomia up to 60 weeks in Sjögren's syndrome patients: a randomized controlled study. *Rheumatology (Oxford, England)*, 60(3), 1353–1363.

<https://doi.org/10.1093/rheumatology/keaa284>

24. Melo, G. M., Neves, M. C., Rosano, M., Vanni, C. M. R. S., Abrahao, M., & Cervantes, O. (2022). Quality of life after sialendoscopy: prospective non-randomized study. *BMC surgery*, 22(1), 11. <https://doi.org/10.1186/s12893-021-01462-2>
25. Erkul, E and Gillespie, Boyd. Sialendoscopy for non-stone disorders: The current evidence. Laryngoscope. Investigative Otolaryngology. [Volume 1, Issue 5](#) October 2016 pages 140-145 <https://doi.org/10.1002/lio2.33>

Approval History

Date approved by RUMC*	Date filed with the State of Maryland	Date of Implementation (Ten days after filing)
05/27/2016	05/31/2016	06/10/2016

Approval History

Effective June 01, 2016, state filing is no longer required per Maryland House Bill [HB 798](#) – Health Insurance – Reporting

Date approved by RUMC	Date of Implementation
06/01/2017	06/01/2017
05/29/2018	05/29/2018
05/28/2019	05/28/2019
05/14/2020	05/14/2020
05/04/2021	05/04/2021
05/25/2022	05/25/2022
04/25/2023	04/25/2023
04/25/2024	04/25/2024

*The Regional Utilization Management Committee received *delegated authority* to review and approve designated Utilization Management and Medical Coverage Policies by the Regional Quality Improvement Committee in 2011

Note: Kaiser Permanente Mid-Atlantic States (KPMAS) include referral and authorization criteria to support primary care and specialty care practitioners, as appropriate, in caring for members with selected conditions. Whenever possible, Medical Coverage Policies are evidence-based and may also include expert opinion. Medical Coverage Policies are not intended or designed as a substitute for the reasonable exercise of independent clinical judgment by a practitioner in any particular set of circumstances for an individual member.

©2024 Kaiser Foundation Health Plan of the Mid-Atlantic States, Inc.

©2024, Mid-Atlantic Permanente Medical Group, P.C.