



NHS MEDICAL POLICY

Image Guided ENT Surgery Procedure 2014-007

Image guided surgery is used in conjunction with other ENT procedures. It may be indicated when ONE of the following is present:

1	Revision sinus surgery.
2	Distorted sinus anatomy of development, postoperative, or traumatic origin.
3	Extensive sino-nasal polyposis.
4	Pathology involving the frontal, posterior ethmoid and sphenoid sinuses.
5	Disease abutting the skull base, orbit, optic nerve or carotid artery.
6	CSF rhinorrhea or conditions where there is a skull base defect.
7	Benign and malignant sino-nasal neoplasms.

SOURCES

1. The American Academy of Otolaryngology – Head and Neck Surgery
2. <http://www.entnet.org/Practice/policyIntraOperativeSurgery.cfm> Accessed May 6, 2014.
3. Dr. Ashley Sikand, ENT peer reviewer, personal communication May 6, 2014.
4. Dalgorf DM, Sacks R, Wormald PJ, Naidoo Y, Panizza B, Uren B, Brown C, Curotta J, Snidvongs K, Harvey RJ. Image-guided surgery influences perioperative morbidity from endoscopic sinus surgery: a systematic review and meta-analysis. *Otolaryngol Head Neck Surg.* 2013 Jul;149(1):17-29.
5. Farhadi M, Jalessi M, Sharifi G, Khamesi S, Bahrami E, Hammami MR, Behzadi AH. Use of image guidance in endoscopic endonasal surgeries: a 5-year experience. *B-ENT.* 2011; 7(4):277-82.

6. Feichtinger M, Pau M, Zemann W, Aigner RM, Kärcher H. Intraoperative control of resection margins in advanced head and neck cancer using a 3D-navigation system based on PET/CT image fusion. *J Craniomaxillofac Surg*. 2010 Dec; 38(8):589-94.
7. Fried MP, Moharir VM, Shin J, Taylor-Becker M, Morrison P. Comparison of endoscopic sinus surgery with and without image guidance. *Am J Rhinol*. 2002 Jul-Aug; 16(4):193-7.
8. Hsu W, Kosztowski TA, Zaidi HA, Gokaslan ZL, Wolinsky JP. Image-guided, endoscopic, transcervical resection of cervical chordoma. *J Neurosurg Spine*. 2010 Apr;12(4):431-5.
9. Justice JM, Orlandi RR. An update on attitudes and use of image-guided surgery. *Int Forum Allergy Rhinol*. 2012 Mar-Apr; 2(2):155-9.
10. Masterson L, Agalato E, Pearson C. Image-guided sinus surgery: practical and financial experiences from a UK centre 2001-2009. *J Laryngol Otol*. 2012 Dec;126(12):1224-30.
11. Metson R, Coszena MJ, Gliklich RE, Montgomery WW, "The role of image guided systems for head and neck surgery," *Archives of Otolaryngology—Head and Neck Surgery*, 1999, 125:1100-1104.
12. Metson R, Coszena MJ, Cunningham MJ, Randolph GW, "Physician Experience with an optical image guided system for sinus surgery," *Laryngoscope* 2000; 110: 972-976.
13. Nakamura M, Stöver T, Rodt T, Majdani O, Lorenz M, Lenarz T, Krauss JK. Neuronavigational guidance in craniofacial approaches for large (para) nasal tumors involving the anterior skull base and upper clival lesions. *Eur J Surg Oncol*. 2009 Jun; 35(6): 666-72.
14. Neumann AM, Pasquale-Niebles K, Bhuta T., Sillers MJ, "Image-guided transnasal endoscopic surgery of the paranasal sinuses and anterior skull base," *American Journal of Rhinology* 1999; 13:449-454.
15. Parikh SR, Cuellar H, Sadoughi B, Aroniadis O, Fried MP. Indications for image-guidance in pediatric sinonasal surgery. *Int J Pediatr Otorhinolaryngol*. 2009 Mar; 73(3): 351-6.
16. Prulière-Escabasse V, Coste A. Image-guided sinus surgery. *Eur Ann Otorhinolaryngol Head Neck Dis*. 2010 Mar;127(1):33-9.
17. Ramakrishnan VR, Orlandi RR, Citardi MJ, Smith TL, Fried MP, Kingdom TT. The use of image-guided surgery in endoscopic sinus surgery: an evidence-based review with recommendations. *Int Forum Allergy Rhinol*. 2013 Mar; 3(3): 236-41.
18. Smith TL, Stewart MG, Orlandi RR, Setzen M, Lanza DC. Indications for image-guided sinus surgery: the current evidence. *Am J Rhinol*. 2007 Jan-Feb; 21(1):80-3. Review.
19. Stelter K, Ledderose G, Hempel JM, Morhard DF, Flatz W, Krause E, Mueller J. Image guided navigation by intraoperative CT scan for cochlear implantation. *Comput Aided Surg*. 2012; 17(3):153-60.
20. Tabae A, Hsu AK, Shrimme MG, Rickert S, Close LG. Quality of life and complications following image-guided endoscopic sinus surgery. *Otolaryngol Head Neck Surg*. 2006 Jul; 135(1):76-80.
21. Tabae A, Kacker A, Kassenoff TL, Anand V. Outcome of computer-assisted sinus surgery: a 5-year study. *Am J Rhinol*. 2003 Sep-Oct; 17(5):291-7.

CODE REFERENCE (This may not be a comprehensive list of codes to apply to this policy.)

CPT 61782

Note: this CPT code has also been used for stereotactic radiosurgery, which has completely different criteria in the Milliman Care Guidelines.

POLICY HISTORY/REVISION INFORMATION

Date	Action/Description
06/19/2015	Annual review and approval by UM Committee
06/16/2016	Annual review and approval by UM Committee
06/14/2017	Annual review and approval by UM Committee
06/13/2018	Annual review and approval by UM Committee
06/12/2019	Annual review and approval by UM Committee
06/11/2020	Annual review and approval by UM Committee
06/11/2021	Annual review and approval by UM Committee
06/10/2022	Annual review and approval by UM Committee
05/23/2023	Annual review and approval by UM/QM Committee
05/20/2024	Annual review and approval by UM/QM Committee