

Disclaimer: This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson’s specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient’s care. This algorithm should not be used to treat pregnant women.

ELIGIBILITY

CONCURRENT COMPONENTS OF VISIT

DISPOSITION

Benign Salivary Tumor treated with surgery only (no radiation), 1 year post-treatment, no recurrent lesions, and NED

SURVEILLANCE

MONITORING FOR LATE EFFECTS

RISK REDUCTION/ EARLY DETECTION

PSYCHOSOCIAL FUNCTIONING

- Transition¹ to HNSVC within 12 months to include:
 - History and physical exam
 - CT head and neck with contrast (or MRI, per baseline imaging study or US) if ≤ 5 years from completion of treatment, **then**
- History and physical exam annually with:
 - Ultrasound salivary gland² is preferred (CT or MRI head and neck with contrast for patients who had deep lobe tumors or required mastoidectomy)

- Consider:
- Lymphedema assessment
 - Xerostomia assessment
 - Dental/trismus assessment
 - Assessing for Frey’s Syndrome (gustatory sweating)

- Patient education, counseling and screening:
- Lifestyle risk assessment³
 - Cancer screening⁴
 - Vaccinations⁵ as appropriate
 - HPV vaccination as clinically indicated (see [HPV Vaccination algorithm](#))
 - Screening for Hepatitis B and C as clinically indicated (see [Hepatitis B Virus \(HBV\) Screening and Management algorithm](#))
 - Consider cardiovascular risk reduction⁶
 - Limit alcohol consumption

- Assess for:
- Distress management (see [Distress Screening and Psychosocial Management algorithm](#))
 - Anxiety/depression
 - Body image
 - Social support
 - Financial stressors



Return to primary treating physician

Continue survivorship monitoring

Refer or consult as indicated

NED = no evidence of disease

HNSVC = Head and Neck Survivorship clinic

¹ Patient may prefer local follow-ups with their primary provider or transition to the HNSVC at MD Anderson

² Imaging is recommended for 5 years as clinically indicated

³ See [Physical Activity](#), [Nutrition](#), and [Tobacco Cessation](#) algorithms; ongoing reassessment of lifestyle risks should be a part of routine clinical practice

⁴ Includes [breast](#), [cervical](#) (if appropriate), [colorectal](#), [liver](#), [lung](#), [pancreatic](#), [prostate](#), and [skin cancer](#) screening

⁵ Based on [Centers for Disease Control and Prevention \(CDC\) guidelines](#)

⁶ Consider use of Vanderbilt’s [ABCDE’s approach to cardiovascular health](#)

Disclaimer: This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women.

SUGGESTED READINGS

- American Cancer Society. (n.d.). American Cancer Society guidelines for the early detection of cancer. Retrieved from <https://www.cancer.org/healthy/find-cancer-early/cancer-screening-guidelines/american-cancer-society-guidelines-for-the-early-detection-of-cancer.html>
- Andreasen, S, Therkildsen, M. H., Bjørndal, K., & Homøe P. (2016). Pleomorphic adenoma of the parotid gland 1985-2010: A Danish nationwide study of incidence, recurrence rate, and malignant transformation. *Head Neck*, 38(Suppl.1):E1364-E1369. doi:10.1002/hed.24228
- Aulino, J. M., Kirsch, C. F. E., Burns, J., Busse, P. M., Chakraborty, S., Choudhri, A. F., . . . Bykowski, J. (2018). ACR appropriateness criteria. Neck mass/adenopathy. Retrieved from <https://acsearch.acr.org/docs/69504/Narrative/>
- Centers for Disease Control and Prevention. (2021). *Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2021*. Retrieved from <https://www.cdc.gov/vaccines/schedules/hcp/imz/adult.html>
- der Maur, C. D. I., Klokman, W. J., van Leeuwen, F. E., Tan, I. B., Emiel, J. T., & Balm, A. J. (2005). Increased risk of breast cancer development after diagnosis of salivary gland tumor. *European Journal of Cancer*, 41(9), 1311-1315. <https://doi.org/10.1016/j.ejca.2005.02.023>
- Dirix, P., Nuyts, S., Vander Poorten, V., Delaere, P., & Van den Bogaert, W. (2008). The influence of xerostomia after radiotherapy on quality of life. *Supportive Care in Cancer*, 16(2), 171-179. <https://doi.org/10.1007/s00520-007-0300-5>
- Galloway, T., & Amdur, R.J. (2020). Management of late complications of head and neck cancer and its treatment. *UpToDate*. Retrieved September 30, 2020, from <https://www.uptodate.com/contents/management-of-late-complications-of-head-and-neck-cancer-and-its-treatment>
- Gilbert, J., Murphy, B., & Jackson, L. (2020). Health-related quality of life in head and neck cancer. Retrieved September 30, 2020, from <https://www.uptodate.com/contents/health-related-quality-of-life-in-head-and-neck-cancer>
- Joshi, A., Calman, F., O'Connell, M., Jeannon, J. P., Pracy, P., & Simo, R. (2010). Current trends in the follow-up of head and neck cancer patients in the UK. *Clinical Oncology*, 22(2), 114-118. <https://doi.org/10.1016/j.clon.2009.11.004>
- National Comprehensive Cancer Network. (2021). *Head and Neck Cancers* (Version 1.2022). https://www.nccn.org/professionals/physician_gls/pdf/head-and-neck.pdf
- National Comprehensive Cancer Network. (2021). *Survivorship* (Version 3.2021). https://www.nccn.org/professionals/physician_gls/pdf/survivorship.pdf
- Patel, N., Har-El, G., & Rosenfeld, R. (2001). Quality of life after great auricular nerve sacrifice during parotidectomy. *Arch Otolaryngol Head Neck Surg*, 127(7), 884-888. <https://doi.org/10-1001/pubs.Arch Otolaryngol. Head Neck Surg.-ISSN-0886-4470-127-7-ooa00173>
- Rogers, L. Q., Rao, K., Malone, J., Kandula, P., Ronan, O., Markwell, S.J. & Robbins, T. (2009). Factors associated with quality of life in outpatients with head and neck cancer 6 months after diagnosis. *Head and Neck*, 31(9), 1207-1214. <https://doi.org/10.1002/hed.21084>
- Vanderbilt Cardio-Oncology Program. (2017). *Know Your ABCDE's*. Retrieved from <http://www.cardioonc.org/2017/08/29/know-your-abcs/>

Disclaimer: *This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women.*

DEVELOPMENT CREDITS

This survivorship algorithm is based on majority expert opinion of the Head and Neck Survivorship workgroup at the University of Texas MD Anderson Cancer Center. It was developed using a multidisciplinary approach that included input from the following:

Core Development Team Leads

Steven Frank, MD (Radiation Oncology)
Charles Lu, MD (Thoracic Head & Neck Medicine)
Kristen Pytynia, MD, MPH (Head & Neck Surgery)
Mark Zafereo, MD (Head & Neck Surgery)

Workgroup Members

Moran Amit, MD, PhD (Head & Neck Surgery)
Susana Calle, MD (Neuroradiology)
Richard Cardoso, DDS (Oral Oncology)
Mark Chambers, DMD (Oral Oncology)
Eduardo Diaz Jr., MD (Head & Neck Surgery)
Bitá Esmali, MD (Ophthalmic Plastic Surgery)
Paul Gidley, MD (Head & Neck Surgery)
Ann Gillenwater, MD (Head & Neck Surgery)
Katherine Gilmore, MPH, BA (Cancer Survivorship)
Ryan Goepfert, MD (Head & Neck Surgery)
Dan Gombos, MD (Ophthalmology)
Ehab Hanna, MD (Head & Neck Surgery)
Amy Hessel, MD (Head & Neck Surgery)
Theresa Hofstede, DDS (Oral Oncology)
Katherine Hutcheson, PhD (Head & Neck Surgery)

Thoa Kazantsev, MSN, RN, OCN♦
Michael Kupferman, MD (Head & Neck Surgery)
Stephen Lai, MD, PhD (Head & Neck Surgery)
Miriam Lango, MD (Head & Neck Surgery)
Carol Lewis, MD, MPH (Head & Neck Surgery)
Guojun Li, MD, PhD (Head & Neck Surgery-Research)
Anastasios Maniakas, MD (Head & Neck Surgery)
Jeffrey Myers, MD, PhD (Head & Neck Surgery)
Marc-Elie Nader, MD (Head & Neck Surgery)
Adegbenga Otun, DDS (Oral Oncology)
Justine Robinson, MPAS (Head & Neck Surgery)
Andrew Sikora, MD, PhD (Head & Neck Surgery)
Shirley Su, MBBS (Head & Neck Surgery)
Rui Jennifer Wang, MD (Head & Neck Surgery)
Randal Weber, MD (Head & Neck Surgery)

♦ Clinical Effectiveness Development Team