Sinonasal tumor

- Cancer Stem Cell Characterization in Olfactory Neuroblastoma Tissue
- Molecular patterns and mechanisms of tumorigenesis in HPV-associated and HPV-independent sinonasal squamous cell carcinoma
- In vivo CRISPR screening identifies NF1/RASA1/TP53 co-mutations and downstream MEK signaling as a common key mechanism of sinonasal tumorigenesis
- Safety and Oncologic Outcomes of Endoscopic Endonasal Transcribriform Approach for Locally Advanced Sinonasal Malignancies
- Transorbital neuroendoscopic approach for recurrent sinonasal inverted papilloma
- Long-term outcomes of endoscopic resection and tailored adjuvant radiotherapy for sinonasal intestinal-type adenocarcinoma: a historical single-center cohort study in 200 patients
- Naso-Ethmoidal Schwannoma: From Pathology to Surgical Strategies
- The role of surgical navigation in the endoscopic resection of a rare skull base tumor, case report

During the past few years, there has been an expansion in our understanding of gene fusions and translocations involved in cancer of the sinonasal tract.

Larkin et al. review the downstream biologic effects, clinical characteristics, and pathologic features of these tumors. The molecular consequences and neo-antigens resulting from these chromosomal aberrations are considered and targets for current and future clinical trials discussed.

Recent findings: Several new, clinically relevant, chromosomal aberrations have been discovered and evaluated to varying degrees in sinonasal tumors including DEK-AFF2, BRD4::NUT, ADCK4::NUMBL, and ETV6::NTRK3. Sinonasal malignancies demonstrate a diverse genetic landscape and varying clinical courses. Recent studies illustrate that gene fusions and translocations may play a role in carcinogenesis in certain sinonasal tumor subtypes and may be used to develop new biomarker-driven and patient-centered treatments [1)].

Sinonasal undifferentiated carcinoma

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see Sinonasal tract schwannoma.

Human papillomavirus-related multiphenotypic sinonasal carcinoma

1)

Larkin R, Hermsen MA, London NR Jr. Translocations and Gene Fusions in Sinonasal Malignancies. Curr Oncol Rep. 2023 Feb 8. doi: 10.1007/s11912-023-01364-x. Epub ahead of print. PMID: 36753024.

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