Anatomy of the Oral Cavity and Related Structures

Understanding the Essentials

Dr Maan Al-Abbasi PhD, MSc, MBChB, MD

Learning





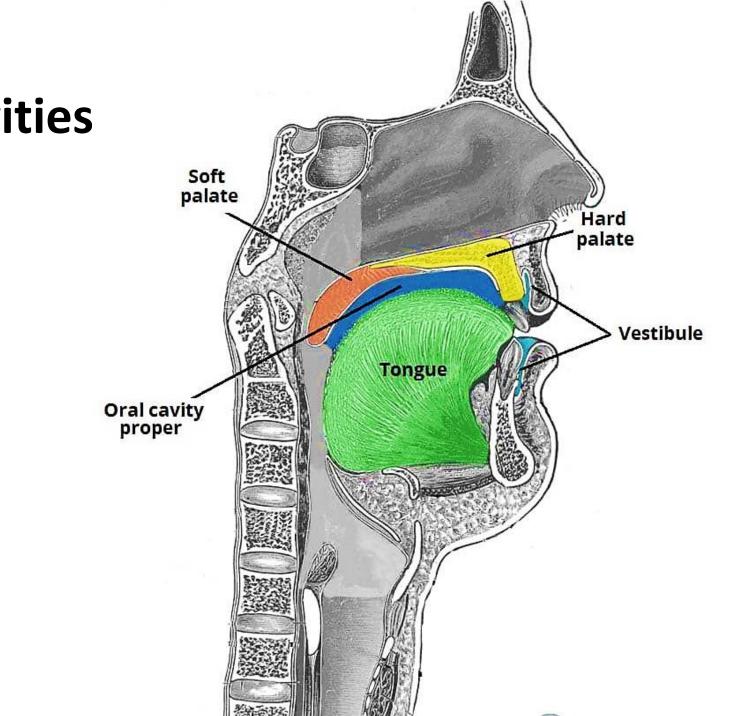
Demonstrate the major features and boundaries of the oral cavity and summarize its sensory innervation.

Describe the functional anatomy of the tongue, including its motor and sensory innervation and the role of the extrinsic and intrinsic muscles.

Explain the deviation of the tongue after hypoglossal nerve injuries.

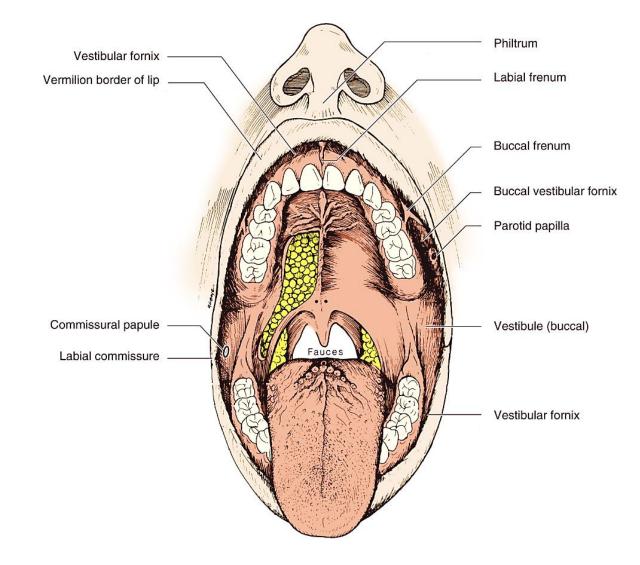
Describe the anatomical arrangement and functional significance of the lymphoid tissue in the tonsils, pharyngeal, and posterior nasal walls.

Section 1 Anatomy of the Oral Cavity

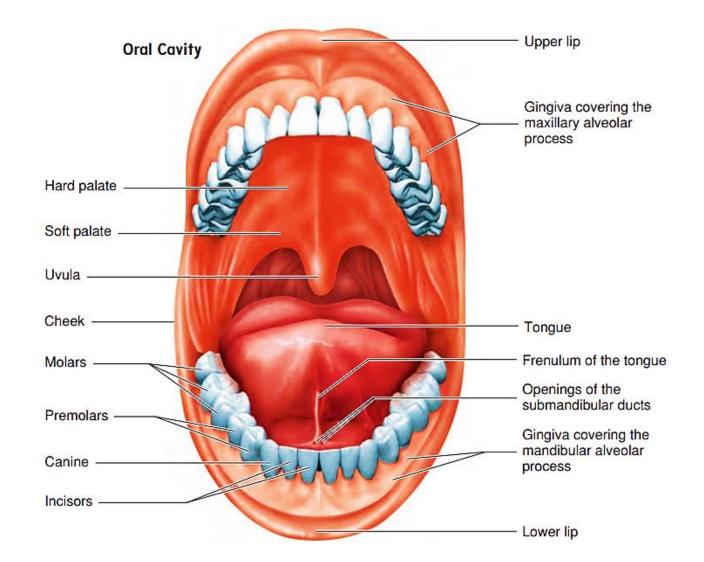


The Cavities

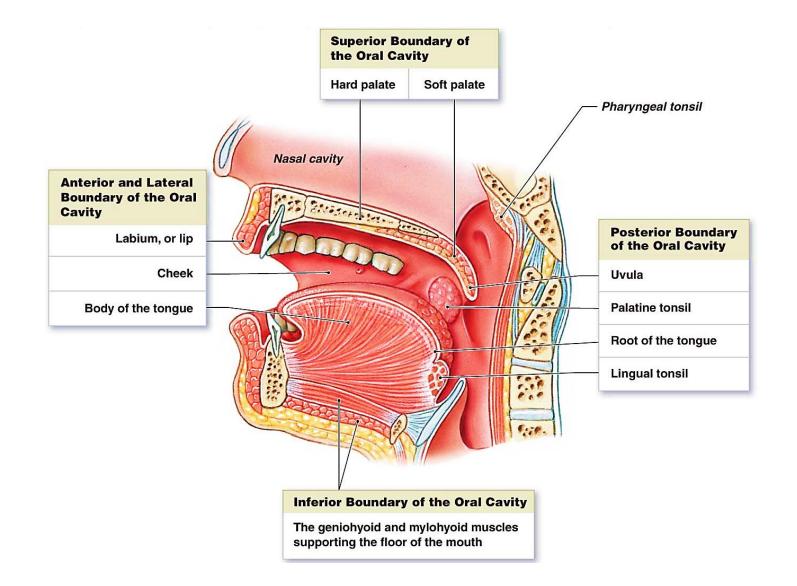
Diagram of the oral cavity with key landmarks



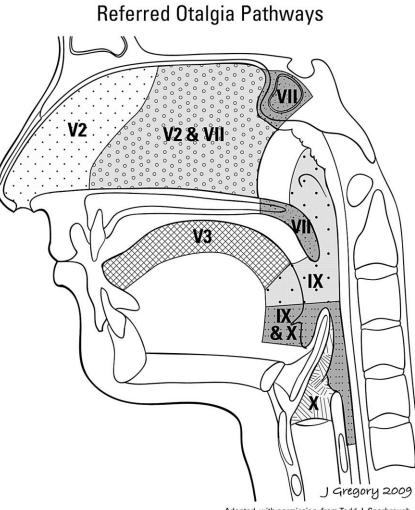
Oral cavity major features



Boundaries of the Oral Cavity



Otalgia arising from head and neck sources.



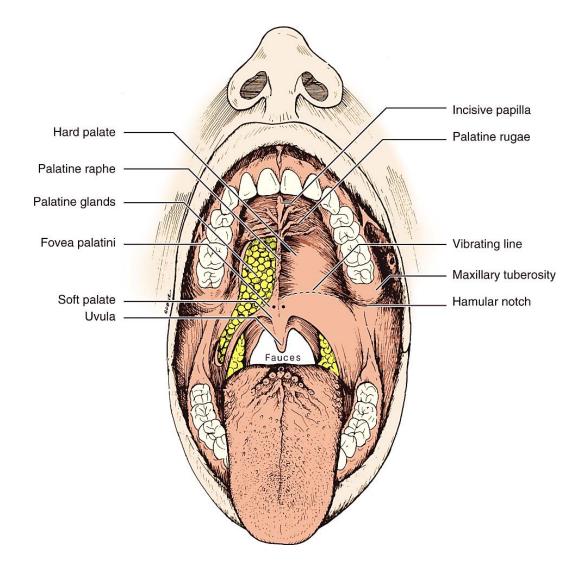
Adapted, with permission, from Todd J. Scarbrough, MD

R.C. Chen et al. AJNR Am J Neuroradiol 2009;30:1817-1823

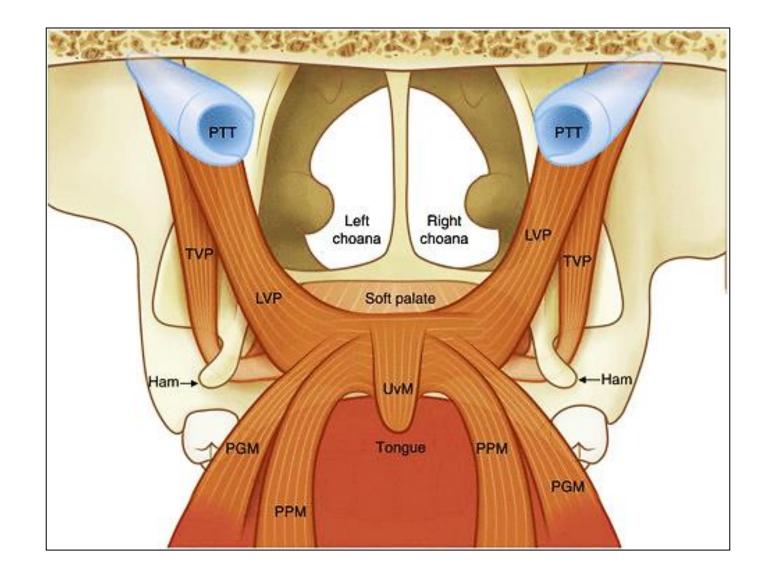


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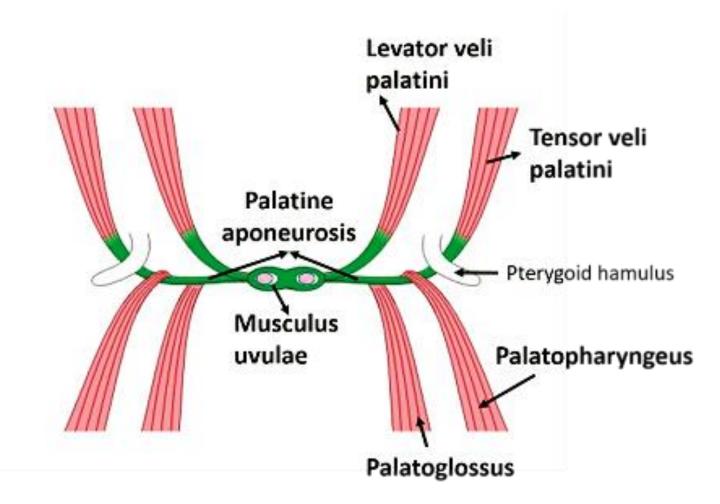
Diagram of the oral cavity with key landmarks



Posterior Fauces

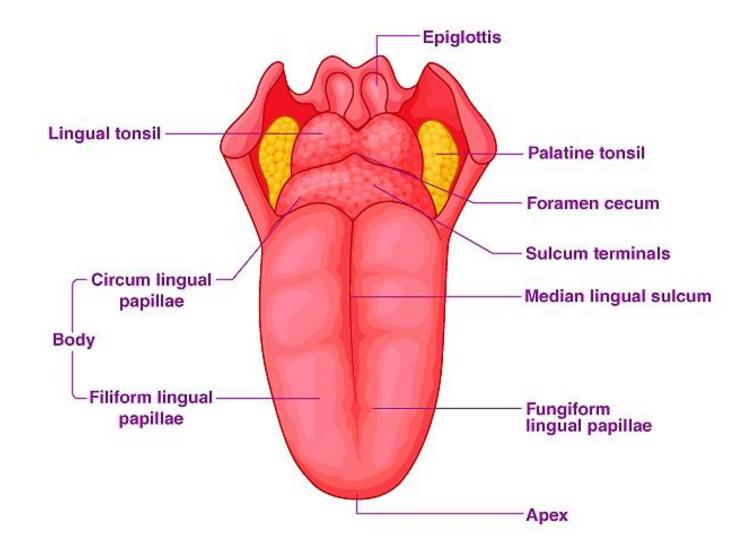


Palatine Muscles

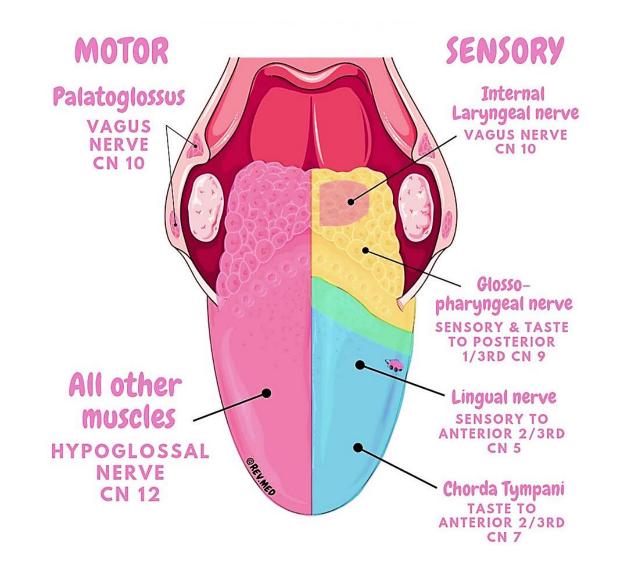


Section 2 Functional Anatomy of the Tongue

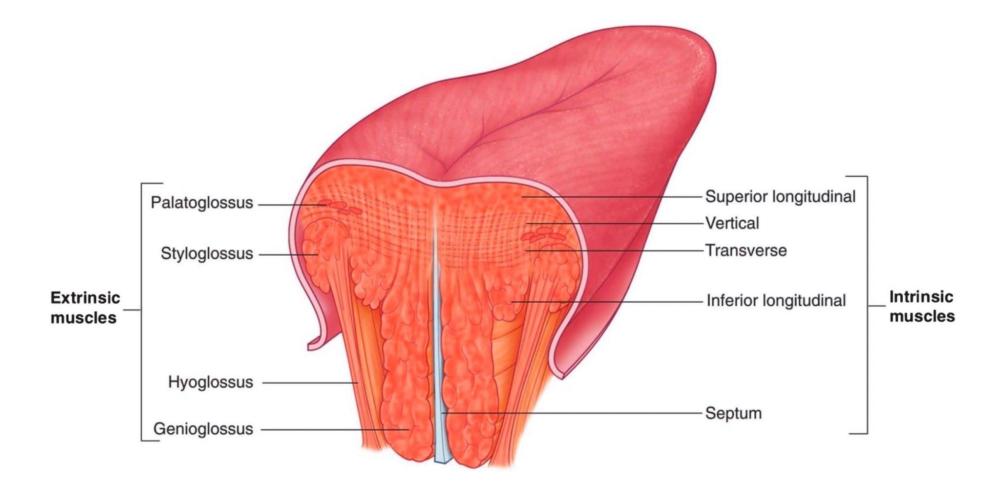
Functional Anatomy



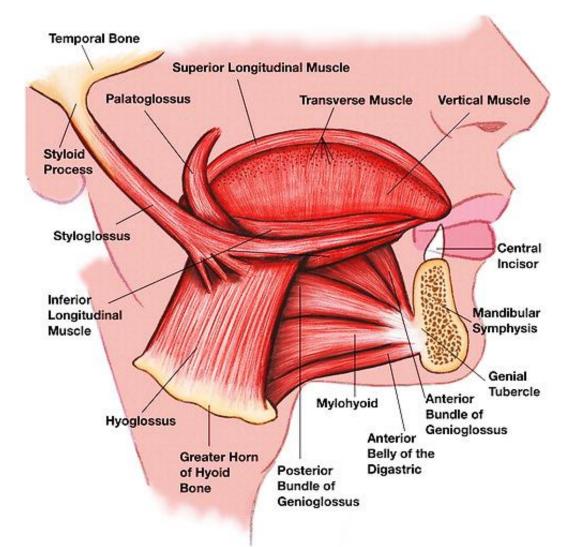
Innervation of the Tongue



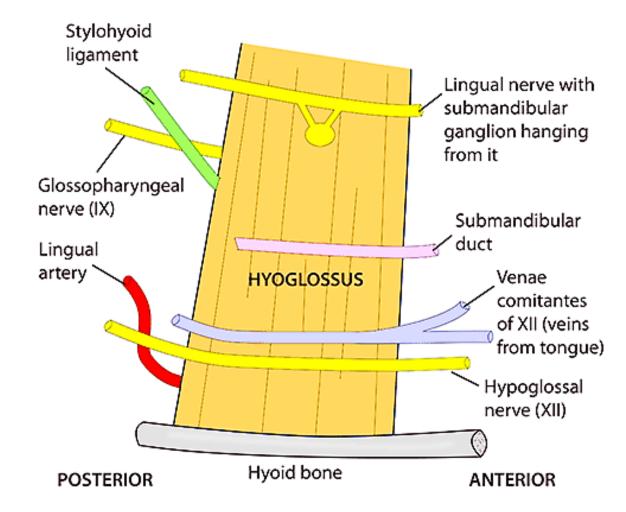
Role of Intrinsic and Extrinsic Muscles



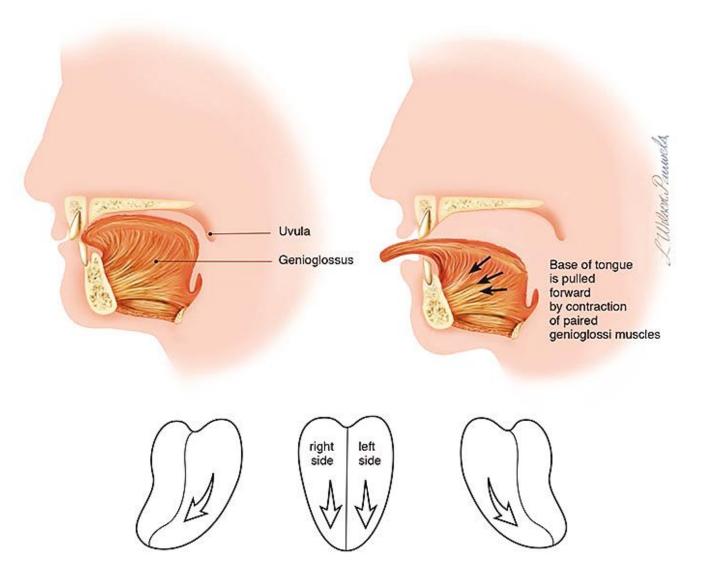
Role of Intrinsic and Extrinsic Muscles



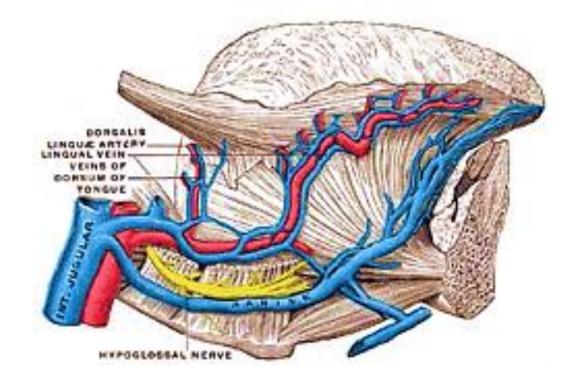
Hyoglossus and its relations



Tongue Deviation after Hypoglossal Nerve Injuries



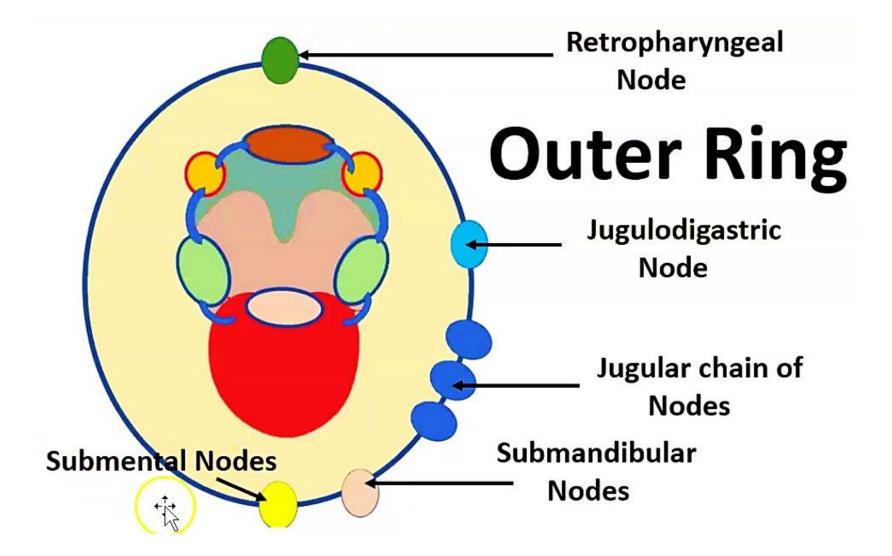
Arteries and Veins



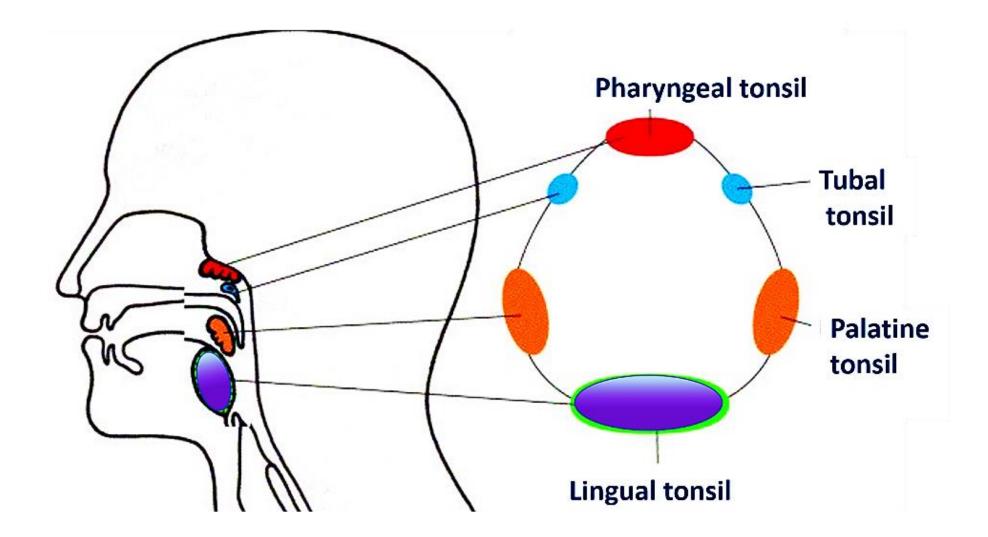
Section 3

Lymphoid Tissues in the Oral Cavity

Lymphoid Tissue Overview



Tonsils



Anatomy of Salivary Glands and Ducts

Understanding Structure and Function

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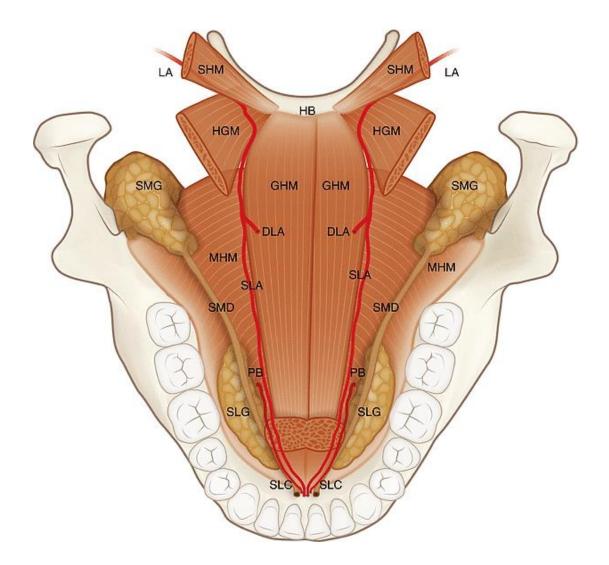
Describe the key anatomical relations of the submandibular and sublingual salivary glands, the course of their ducts into the oral cavity and their autonomic secretomotor innervation.

Appreciate the narrow points of the ducts in relation to salivary stone impaction.

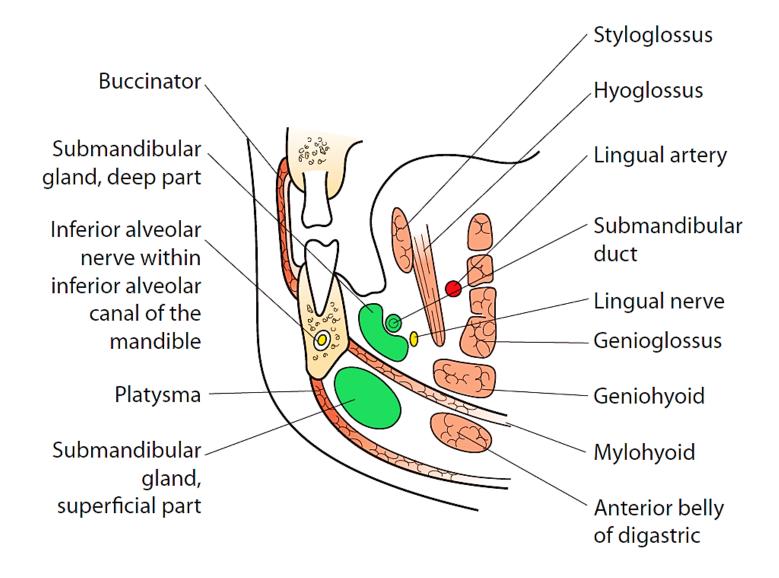
Explain the muscles of the floor of the mouth.

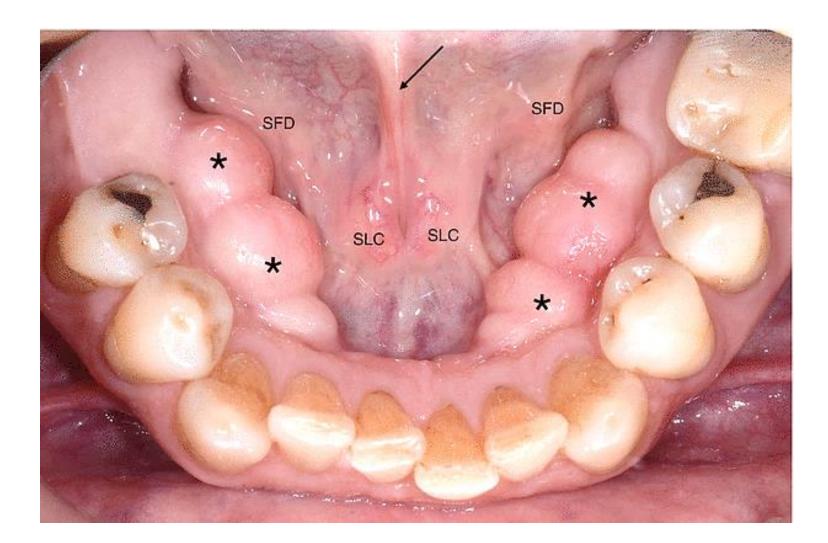
Appendix: Muscles of the floor of the mouth

Floor of the Mouth

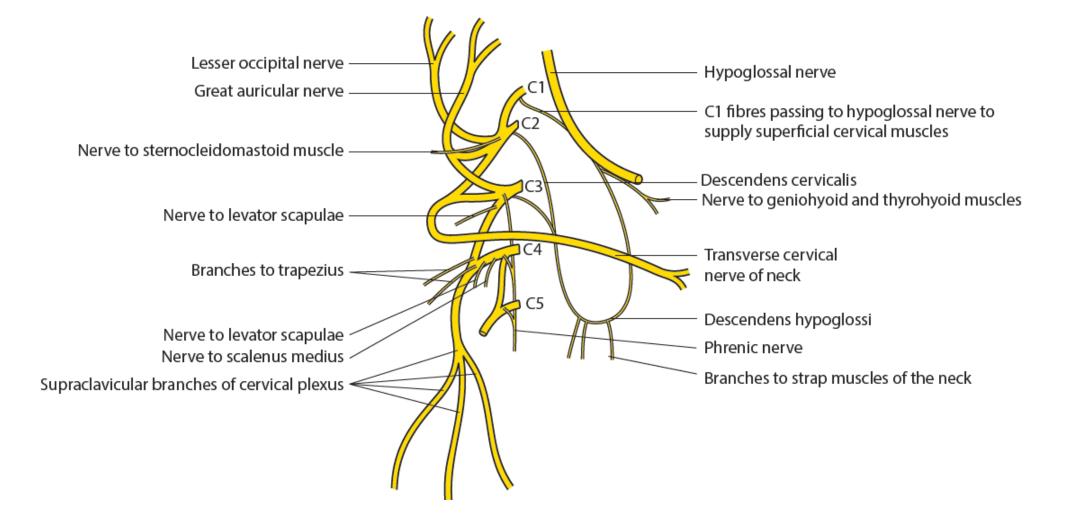


Floor of the mouth – Coronal section

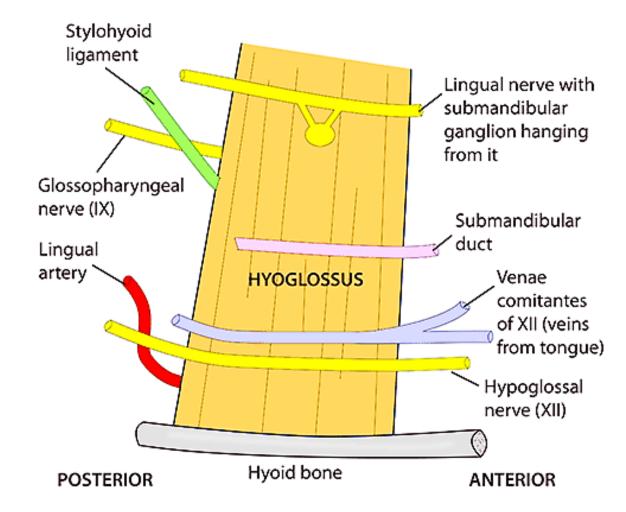




Hypoglossal Nerve



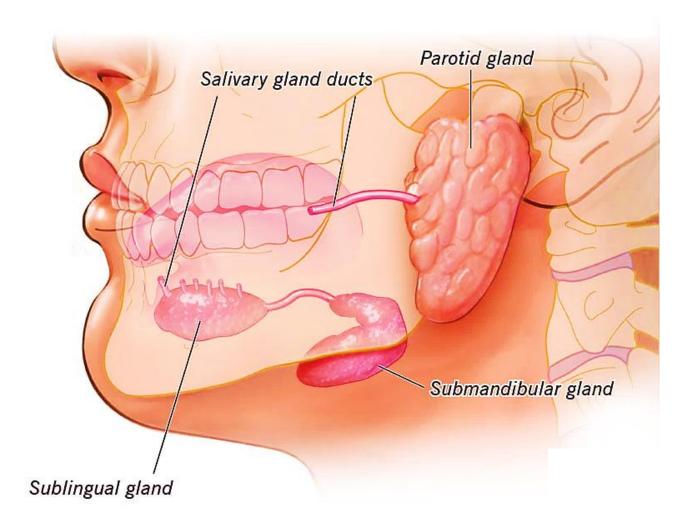
Hyoglossus and its relations



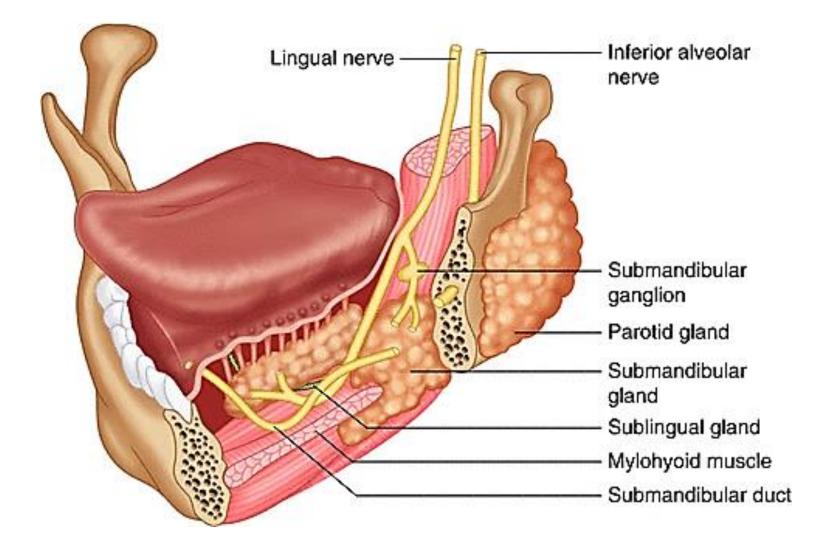
Section 1

Salivary Glands Anatomy

Salivary Glands



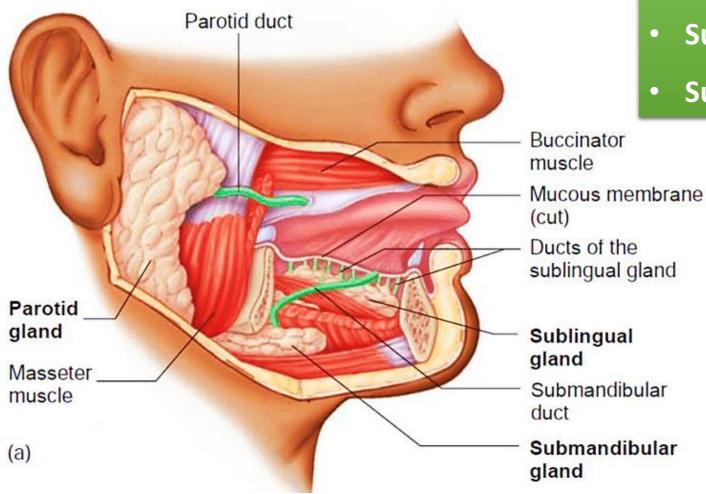
Submandibular & Sublingual Salivary Glands



Section 2

Salivary Ducts and Their Course

Overview of Salivary Ducts

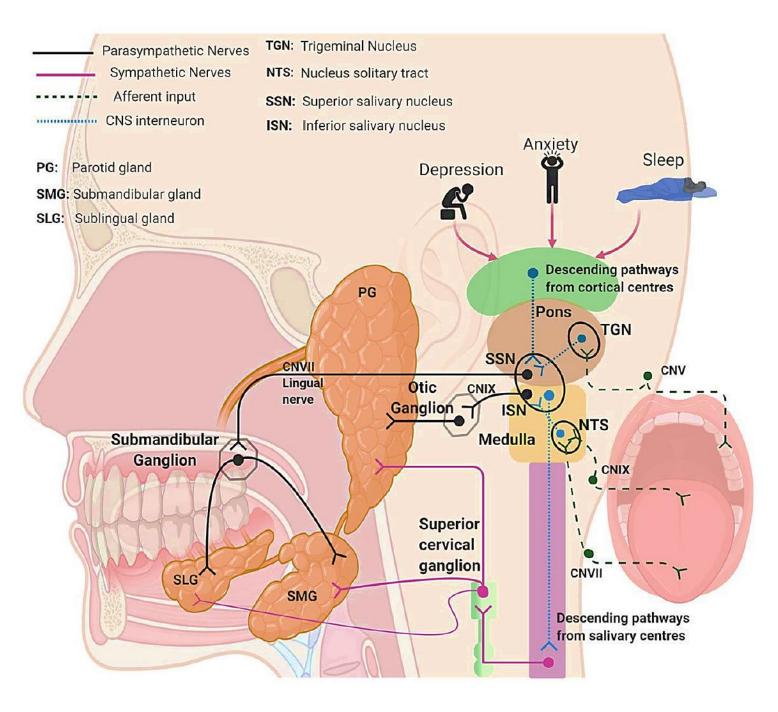


- Parotid Duct (Stensen's Duct)
- Submandibular Duct (Wharton's Duct)
- Sublingual Ducts (Bartholin's Duct)

Section 3

Autonomic Secretomotor Innervation

Autonomic Innervation Overview



Section 4

Salivary Stone Impaction

Narrow Points and Salivary Stone Impaction

Submandibular duct stone



Parotid duct stone

