THE ORAL REGION 1

Objectives:

- 1. Identify the parts & contents of the oral
- region & its relation to other regions.
- 2. Study the entrance & exits of the oral cavity
- 3. Recognize the features of the lateral walls,
- roof & floor of the cavity and the neurovascular

supply of each

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Parts of the oral region

Part	Formation
Entrance	Oral fissure & lips
Exit	Isthmus of the fauces
Lateral walls	Cheeks
Roof	Hard & Soft Palate
Floor	Muscles & tongue

Contents of the oral region

Part	Formation
Oral cavity	Vestibule, cavity proper
Dental arches	Upper & lower teeth
Togue	-
Salivary glands	Submandibular & Sublingual glands

The oral fissure & lips

Extend from the nasolabial sulci & nares superiorly to the mentolabial sulcus inferiorly



The oral fissure (LIPS)

-Philtrum: upper midline groove
-Vermilion border: change from thick to thin skin
-Transitional zone
-Median labial frenulum: mucosal fold towards incisor teeth



Structure & blood supply



Soft tissue:mainly orbicularis oris+outer skin+ Inner mucosa

- Blood supply: sup. & inf. Labial branches of facial artery with rich midline anastomosis.

Innervation



Lymphatic drainage



Common conditions

Squamous cell carcinoma)

The oral cavity: Parts

-Vestibule: between the dental arches and the lips or cheeks
-Oral cavity proper: deep to the dental arches

Lateral walls = cheeks

-Buccinator muscle: covered with facial skin & lined with oral mucosa

- Motor innervation: buccal br. of CN VII
- Sensory nerves: from buccal br. of V3.
- Mucosa has opening of parotid duct **opposite the upper 2nd molar tooth.**

Floor= Geniohyoid+Mylohyoid+Tongue

Geniohyoid

-Cord –like
-From inferior mental spines of mandible
-To body of hyoid bone

-Supplied by C1

-Elevates hyoid or Depresses mandible

Floor= Geniohyoid+Mylohyoid+Tongue

Mylohyoid -Muscular diaphragm (flat) -From mylohyoid line of mandible -To median raphe & hyoid body -Supplied by Nerve to mylohyoid from inferior alveolar branch of V3 -Elevates hyoid or Depresses mandible & Supports the weight of the tongue - Has FREE POSTERIOR BORDER

Floor= Geniohyoid+Mylohyoid+Tongue

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Oropharyngeal triangle

Triangular aperture Gateway between oral cavity & infratemporal fossa

- Anteriorly: mylohoid
- Posteriorly: middle constrictor
- Superiorly: superior constrictor

Allows passage of:

- Muscles: Hyoglossus + Styloglossus
- Vessels: Lingual a. & v.
- Nerves: Lingual + CN IX+CN XII
- Lymphatics.

Triangular aperture (oropharyngeal triangle) between mylohyoid, superior constrictor, and middle constrictor

Palate

- Anteriorly **Hard palate:** separates oral from nasal cavity. Covered above by respiratory epith. & below by oral mucosa with palatine glands.
- Posteriorly Soft palate: skeletal muscles covered by oral mucosa. Depresses to close the exit of the oral cavity (nasal breathing).
 Elevates to separate the oropharynx from the nasopharynx (swallowing).

Roof= Palate

Hard palate: Skeletal framework

Hard palate : Mucosa

- Palatine rugae: transverse folds in the anterior part
 Palatine raphe: median longitudinal ridge leading anteriorly to:
- Incisive papilla: small oval elevation over the incisive fossa
- Uvula: drop like projection from soft palate

Only muscle supplied by the mandibular nerve (via br. to medial pterygoid). All Other muscles supplied by CN X (by br. to. Pharyngeal plexus).

Only muscle to elevate the palate above the neutral position

Also depresses soft palate

Can elevate & retract the depressed uvula (but not above the neutral position)

Palate : arterial supply

- Maxillary a. → Descending palatine a.:
- 1. lesser palatine + 2. Greater palatine
- Facial a. → Ascending palatine a.
- Ascending pharyngeal a. → palatine br.

Greater palatine a. to hard palate. All other aa. To soft palate

Palate : Nerve supply

- Sensory: from V2 via greater & lesser palatine nn. & nasopalatine n.
- Sympathetic: from internal carotid plexus via deep petrosal n. to pterygopalatine ganglion
- Parasympathetic: from CN VII via grater petrosal n. to pterygopalatine ganglion.
- Motor: all palatal mm. are supplied by CN X (ph. plexus) EXCEPT tensor villi (by V3 by n. to medial pterygoid)

Palate : venous & lymphatic drainage

- Venous drainage: follows the arteries to the pterygoid venous plexus, pharyngeal venous plexus or facial vein.
- Lymph passes to the deep cervical lymph nodes along the internal jugular vein

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Exit of the oral cavity : Oropharyngeal isthmus (of the fauces)

- Superiorly: soft palate & uvula
- Inferiorly: tongue
- Laterally: palatoglossal arch (ant.), palatopharungeal arch (post.) & tonsilalar bed with palatine tonsils

Exit of the oral cavity : Oropharyngeal isthmus (of the fauces)

CLOSED

Medial and downward movement of palatoglossal &palatopharyngeal arches + Upward movement of tongue +Downward and forward movement of soft palate

OPEN