

Unit 20: Topographic anatomy: **Oral region and mouth**

Guide for the practical class using Anatomedia online

Topography of the mouth and oral region

1. Go to An@tomedica, **head** module-regions-frame: **05** (Regions of head)
 - Click on underlined text to locate and distinguish cranial, facial and upper airway regions of the head, see where the mouth belongs/is located
 - Activate 'can you identify' to see that the mouth is a deep region of the head
2. Go to An@tomedica, **head** module-regions-frame: **26** (Oral cavity & palate)
 - Click on underlined text to identify:
 - the main features of the vestibule and the oral cavity proper
 - features of the hard and soft palate (with their supply)
 - Activate 'can you identify' to visualize lips and vestibule of the mouth, soft and hard palate, mucosal features, tongue and its muscles, the mandible with muscle attachments. Activate 'm' and 'lm' buttons to visualize muscles and to exclude other regions on the image, respectively
3. Go to An@tomedica, **head** module-regions-frame: **27** (Tongue & sublingual region)
 - Click on underlined text to identify:
 - the muscles of the tongue
 - boundaries of sublingual region and glands in the floor of the mouth
 - irrigation and innervation of the tongue and floor of the mouth
 - Activate 'can you identify' to visualize extrinsic and intrinsic tongue muscles, glands and their ducts as well as the supply structures

Muscles of the tongue and salivary glands

4. Go to An@tomedica, **head** module-systems-frame: **31** (Muscles of tongue)
 - Click on underlined text to identify:
 - the muscles of the tongue (origin, insertion, function)
 - innervation of the tongue muscles
 - Activate 'can you identify' to visualize extrinsic and intrinsic tongue muscles and their attachments. Activation of colored buttons will highlight different structures on the image (cartilage, muscles, ligaments, fibrous tissue, serous membrane)

5. Go to An@tomedica, **head** module-systems-frame: **37** (Salivary glands & ducts)
- Click on underlined text to identify:
 - submandibular and sublingual glands
 - innervation of glands and basis of salivary reflex arc
 - Activate 'can you identify' to visualize salivary glands and their ducts, sites of their orifices

Imaging of the mouth

6. Go to An@tomedica, **head** module-imaging-frame: **46** (Mouth & oropharynx)
- Activate 'can you identify' to visualize parts of the oral cavity via endoscopy
 - Click on underlined text to access the video recording of palate and oropharynx

Nerves and blood vessels of the oral cavity

7. Go to An@tomedica, **head** module-systems-frame: **62** (Cranial nerve V)
- Click on underlined text to review anatomy of the trigeminal nerve, particularly the mandibular nerve (Vc) and its branches, particularly those projecting to the oral cavity and tongue. Look at the neural organization of sneeze reflex.
 - Activate 'can you identify' to visualize individual branches of the mandibular nerve
8. Go to An@tomedica, **head** module-systems-frame: **63** (Cranial nerve VII)
- Click on underlined text to review anatomy of the facial nerve, particularly the secretomotor and taste sensory fibres
 - Activate 'can you identify' to visualize individual branches of the facial nerve, particularly secretomotor and taste sensory fibres. Activation of colored buttons will highlight different structures on the image (muscles, fibrous tissue, nerves, viscera, serous membrane)
9. Go to An@tomedica, **head** module-systems-frame: **66** (Cranial nerves IX & X)
- Click on underlined text to review anatomy of the glossopharyngeal and vagus nerves, particularly their secretomotor and taste sensory fibres
 - Activate 'can you identify' to visualize individual branches of CN IX and X, particularly their secretomotor and taste sensory fibres. Activation of colored buttons will highlight different structures on the image (cartilage, muscles, ligaments, arteries, viscera, serous membrane)

10. Go to An@tomedica, **head** module-systems-frame: **67** (Cranial nerves XI & XII)
 - Click on underlined text to review anatomy of the hypoglossal nerve, its connection to the nucleus, its course, quality of fibres
 - Activate 'can you identify' to visualize individual branches of CN XII and muscles that it innervates

11. Go to A@tomedica, **head** module-systems-frame: **68** (External carotid artery)
 - Click on underlined text to visualize branches of external carotid artery, particularly the course and branches of the lingual and facial arteries
 - Activate 'can you identify' to visualize the above arterial branches

12. Go to An@tomedica, **head** module-systems-frame: **71** (Extracranial & diploic veins)
 - Click on underlined text to visualize superficial extracranial veins and their tributaries
 - Activate 'can you identify' to visualize the above veins and their tributaries