Unit 15: Topographic anatomy: Face and scalp

Guide for the practical class using Anatomedia online

Topography of face and scalp:

1. Go to An@tomedia, **head** module-regions-frame: **01** (Surface markings of head)
    -Activate 'lm' to show surface margins between regions
    -Activate 'can you identify' with 'lm' turned on to show margin around the head, ***palpate these on your own head, in front of the mirror***

2. Go to An@tomedia, **head** module-dissection-frames: **01-03** (Surface margins & markings, Skin incisions, Skin removed)
    -Activate 'lm' to show surface margins between head regions
    -Click on underlined text to see:
        -surface markings
        -skin incisions
    palpate these on your own head, in front of the mirror

3. Go to An@tomedia, **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
    -Activate 'can you identify' to distinguish superficial from deep regions

4. Go to An@tomedia, **head** module-regions-frame: **07** (Scalp)
    -Click on underlined text to see:
        -layers of the SCALP and their significance
        -supply of SCALP
        -peculiarities and clinical relevance of SCALP layers
    -Activate 'can you identify' to distinguish individual SCALP structures/layers, particularly the neuro-vascular supply of the scalp

Muscles of facial expression and their supply:

5. Go to An@tomedia, **head** module-systems-frame: **29** (Muscles of facial expression)
    -Click on underlined text to list and distinguish muscles of facial expression belonging to different groups
    -Activate 'can you identify' to visualize different muscle groups but press red 'm' button to highlight muscles

6. Go to An@tomedia, **head** module-dissection-frame: **05** and **07** (Buccal SMAS excised, Motor & sensory nerves traced)

-Activate 'can you identify' to visualize different muscle groups, blood vessels and nerves, pressing different colored buttons will highlight different structures (bones, muscles, nerves, arteries, veins, viscera)

Try to activate your own facial muscles and achieve different facial expression, in front of the mirror

7. Go to An@tomedia, **head** module-dissection-frame: **11** (Subcutaneous fat removed)

-Activate 'can you identify' to visualize different muscle groups, press red 'm' button to highlight muscles

Try to activate your own facial muscles and achieve different facial expression, in front of the mirror

8. Go to An@tomedia, **head** module-dissection-frame: **13** (Parotid gland and platysma excised)

-Activate 'can you identify' to visualize branches of facial nerve/artery/vein supplying face (including muscles of facial expression), press red 'a', blue 'v' and yellow 'n' buttons to highlight appropriate structures

9. Go to An@tomedia, **head** module-regions-frame: **20** (Parotid region)

-Activate 'can you identify' to visualize branches of facial nerve/artery/vein supplying face (including muscles of facial expression), press red 'a', blue 'v' and yellow 'n' buttons to highlight appropriate structures

10. Go to An@tomedia, **head** module-systems-frame: **63** (Cranial nerve VII)

-Click on underlined text to review anatomy of facial nerve, particularly important are extracranial branches of CN VII

-Activate 'can you identify' to visualize branches of facial nerve, particularly its extracranial branches

Cutaneous nerves and blood vessels of face and scalp:

11. Go to An@tomedia, **head** module-regions-frame: **19** (Face)

-Click on underlined text to view cutaneous nerve branches on the face and visualize their 'exit points'

-Click on underlined text to view arteries and veins on the face and visualize their anastomoses

-Activate ‘can you identify’ to visualize branches of trigeminal nerve (ophthalmic, maxillary and mandibular branches) and their bony foramina
-Activate ‘can you identify’ to visualize branches of facial artery and tributaries of facial vein

12. Go to An@tomedia, **head** module-systems-frame: **62** (Cranial nerve V)
-Click on underlined text to review anatomy of trigeminal nerve (Va, Vb, Vc), particularly main cutaneous branches of ophthalmic, maxillary and mandibular nerves
-Activate ‘can you identify’ to visualize individual branches of trigeminal nerve and their bony foramina/communications

13. Go to An@tomedia, **head** module-systems-frame: **68** (External carotid artery)
-Click on underlined text to visualize branches of external carotid artery, particularly of the facial, superficial temporal and occipital arteries
-Activate ‘can you identify’ to visualize the above arterial branches

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