Unit 28: Topographic anatomy: Thoracic cavity

Guide for the practical class using Anatomedia online

Topography of the thorax/thoracic space

1. Go to An@tomedia, **thorax** module-regions-frames: **1 and 2** (Surface margins of thorax, Bony boundaries of thorax)

-Click on <u>underlined text</u>: (see figure) to see the position of thorax between four other modules of the body on frame 1

-Activate 'can you identify' to visualize surface margins and bony boundaries of the thorax

2. Go to An@tomedia, **thorax** module-regions-frames: **3 and 4** (Position of thorax in trunk, Relations of thorax)

-Click on <u>underlined text</u> to see vertebral levels of transverse sections on frame 4 -Activate 'can you identify' to visualize position of the thorax in trunk and its relations to neighboring body modules

3. Go to An@tomedia, **thorax** module-regions-frames: **7 and 8** (Position of regions in thorax in trunk, Subdivisions of mediastinum)

-Click on <u>underlined text</u> to review how is thoracic cavity divided into regions, which viscera are located in thorax, how is mediastinum subdivided and what is the position of each division

-Activate 'can you identify' to visualize parts of the thorax/mediastinum

4. Go to An@tomedia, **thorax** module-regions-frames: **16 and 17** (Parietal & visceral pleura, Pleural cavities)

-Click on <u>underlined text</u> to review differences between parietal and visceral pleurae (including their supply), how is parietal pleura subdivided, what is normally contained in pleural cavity and what can be its contents in pathological situations -Activate 'can you identify' to visualize parts of parietal pleura and various surface markings

5. Go to An@tomedia, **thorax** module-regions-frames: **19 and 20** (Fibrous & serous pericardium, Pericardial cavity)

-Click on <u>underlined text</u> to see arrangements of parietal and visceral pericardium (including their supply), what is the contents of pericardial cavity and what can be

its contents in pathological situations, where parietal and visceral layers become continuous with each other and what are the sinuses of pericardial cavity -Activate 'can you identify' to visualize parts of pericardium and contents of pericardial cavity, position of pericardial sinuses

6. Go to An@tomedia, **thorax** module-regions-frames: **22 and 23** (Superior mediastinum, Anterior mediastinum)

-Click on <u>underlined text</u> to review the contents and exact location of structures in superior and anterior mediastinum

-Activate 'can you identify' to visualize surface markings of anterior mediastinum and viscera, vessels and nerves of the superior/anterior mediastinum

7. Go to An@tomedia, **thorax** module-regions-frames: **24 and 25** (Middle mediastinum, Posterior mediastinum)

-Click on <u>underlined text</u> to review the structures located between the root of lungs, specifics of the vagus nerve and vessels in posterior and middle mediastinum -Activate 'can you identify' to visualize structures located in the middle/posterior mediastinum

Organs and systems in the thoracic cavity

8. Go to An@tomedia, **thorax** module-systems-frames: **16 and 17** (Trachea & main bronchi, Lungs: fissures & lobes)

-Click on <u>underlined text</u> to review anatomy of tracheal wall, its bifurcation, principle bronchi, their supply, clinical importance. Also, how are lungs organized, demarcated, supplied and drained

-Activate 'can you identify' to visualize components of tracheal/bronchial wall and parts of lungs

9. Go to An@tomedia, thorax module-systems-frames: 18 and 19 (Right lung, Left lung)
-Click on <u>underlined text</u> to review structures creating impressions of medial lung
surface and the arrangements of structures in lung hila
-Activate 'can you identify' to visualize grooves on medial surfaces and structures
in lung hila

10. Go to An@tomedia, **thorax** module-systems-frames: **20 and 21** (Bronchial tree, Bronchopulmonary segments)

-Click on <u>underlined text</u> to review the arrangement of secondary and tertiary bronchi on right and left lungs and characteristics of bronchopulmonary segments

-Activate 'can you identify' to visualize branching of bronchial tree and division of lung parenchyma into segments

11. Go to An@tomedia, **thorax** module-systems-frames: **25 and 26** (Heart: borders & surfaces, Valves & fibrous skeleton of heart)

-Click on <u>underlined text</u> to revise borders, surfaces and orientation of the heart, features of different cardiac valves and fibrous

-Activate 'can you identify' to visualize heart borders and surfaces and then valves together with cardiac skeleton features

12. Go to An@tomedia, **thorax** module-systems-frames: **27 and 28** (Atria and ventricles of heart)

-Click on <u>underlined text</u> to revise features of cardiac atria and ventricles and direction of the blood flow

-Activate 'can you identify' to visualize features of atria and ventricles

13. Go to An@tomedia, **thorax** module-systems-frames: **29 and 30** (Conducting system & nerve supply, Coronary artery)

-Click on <u>underlined text</u> to revise components and features of conducting system, specifics of cardiac innervation and arterial (coronary) supply

-Activate 'can you identify' to visualize components of conducting system and origin/branches of coronary arteries

14. Go to An@tomedia, thorax module-systems-frame: 22 (Oesophagus)
-Click on <u>underlined text</u> to review layers of oesophageal wall, sites of its constrictions, localization of its sphincters, details about its supply
-Activate 'can you identify' to parts of oesophagus and its supply

Vessels and nerves of the thorax

15. Go to An@tomedia, **thorax** module-systems-frames: **32 and 33** (Pulmonary circulation, Aorta & branches in thorax

-Click on <u>underlined text</u> to review parts of pulmonary circulation, parts aorta (ascending, arch, descending), its branches, particularly internal thoracic artery -Activate 'can you identify' to visualize components of pulmonary circulation, parts of aorta and its principle branches (parietal and visceral)

16. Go to An@tomedia, **thorax** module-systems-frames: **34 and 35** (Caval & azygous systems in thorax, Lymph vessels & nodes of thorax)

-Click on <u>underlined text</u> to review tributaries to SVC, brachicephalic veins, azygous vein (and its tributaries) and principles of the lymph flow in thorax -Activate 'can you identify' to visualize principle veins, lymph ducts and nodes in thorax

17. Go to An@tomedia, **thorax** module-systems-frames: **36 and 37** (Thoracic duct, Thymus)

-Click on <u>underlined text</u> to review the origin of the thoracic duct and the right lymphatic duct as well as their tributaries,

-Activate 'can you identify' to visualize lymph ducts, their sites of entry to venous system and to visualize location and size of thymus in two years old child