

# M2 Session 1: Palpable Anatomy & Thoracic Cavity

## Part 1: Thorax

### 1.1 Thoracic Wall

Locate the components of the thoracic wall.

- Clavicle
- Sternum
  - Sternal angle
  - Jugular notch
- Ribs
- Costal cartilages
- Intercostal spaces

*Which rib is found at the level of the sternal angle?*

### 1.2 Intercostal Space

Locate the structures in the intercostal spaces.

- Intercostal neurovascular bundle
- External intercostal mm.
- Internal intercostal mm.

*In relation to superior and inferior ribs, where does one find the neurovascular bundle within the intercostal space? What is the significance of the 2nd and 5th intercostal spaces?*

### 1.3 Superior Mediastinum

Locate the major blood vessels associated with the superior mediastinum.

- Aortic arch
  - Brachiocephalic trunk
    - Right subclavian a.
    - Right common carotid a.
  - Left common carotid a.
  - Left subclavian a.
- Superior vena cava

*Where is the vagus nerve found in relation to these major blood vessels?*

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### **1.4 Heart**

Locate the coronary a. branches.

- Right coronary a.
  - Right marginal a.
  - Posterior interventricular a.
- Left coronary a.
  - Anterior interventricular a. (LAD)
  - Circumflex br.

*Which coronary artery typically gives off SA and AV nodal brs?*

### **1.5 Lungs**

Locate the structures in the root of the lung.

- Primary bronchus
- Pulmonary a.
- Pulmonary vv.

*What is the difference between the hilum and root of the lung?*

### **1.6 Pleura and Pericardium**

Locate the pleura and pericardium.

- Fibrous pericardium
- Parietal pericardium
- Visceral pericardium
- Parietal pleura
- Visceral pleura

*Describe the surface landmarks used to access the pericardial sac from externally.*

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## Part 2: Inferior Neck

### 2.1 First Rib

Locate the structures attached to and coursing near the first rib.

- Subclavian v.
- Phrenic n.
- Anterior scalene m.
- 1st rib
- Subclavian a.
- Trunks of brachial plexus

*What is the relationship between the anterior scalene muscle, the brachial plexus, the subclavian artery, and the subclavian vein?*

### 2.2 Carotid Sheath

Locate the region of the carotid sheath and identify its contents.

- External jugular v.
- Sternocleidomastoid m.
- Internal jugular v.
- Common carotid a.
- Vagus n.
- Deep cervical lymph nodes

*Where do the lymph nodes of the deep cervical chain drain? How might the clinician use palpable landmarks to find and assess these nodes?*

### 2.3 Larynx & Thyroid Gland

Locate the palpable structures on the midline of the neck.

- Thyroid cartilage
- Median cricothyroid ligament
- Cricoid cartilage
- Thyroid gland

*Describe how you would use palpable landmarks of the anterior neck in order to perform an emergency airway.*

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## **Part 4: Face**

### **4.1 Osteology**

Locate openings for branches of CN V and VII on a skull.

- Stylomastoid foramen
- Supra-orbital notch / foramen
- Infra-orbital foramen
- Mental foramen

*Which nerve branches pass through these openings? What do they innervate?*