

**PRACTICAL FOR FIRST YEAR
RESPIRATORY SYSTEM BLOCK**

PRACTICAL ONE:

“MUSCLES INVOLVED IN NORMAL RESPIRATION”

DAY & DATE	TIME	GROUP
Monday 17/12/2018	8:00 – 10:00	MALE A
Monday 17/12/2018	10:00 – 12:00	MALE B
Sunday 16/12/2018	1:00 – 3:00	FEMALE 1
Monday 17/12/2018	8:00 – 10:00	FEMALE 2

OBJECTIVES:

At the end of the practical section, the students should be able to:

- Describe the components of the thoracic cage and their articulations.
- List the muscles involved in inspiration and expiration.
- Describe the anatomy (origin, insertion, nerve supply, major openings) of diaphragm.
- List the structures passing through the major openings of the diaphragm.
- List the intercostal muscles.
- Describe the anatomy (attachments in brief, direction of fibers, nerve supply, blood supply) of intercostal muscles.
- List the anterior abdominal wall muscles.
- Describe the anatomy (attachments in brief, direction of fibers, nerve supply, blood supply) of anterior abdominal wall muscles.
- Demonstrate the neurovascular plane in both the thoracic and anterior abdominal wall.
- **IDENTIFY THE FOLLOWING STRUCTURES: sternum, typical and atypical right and left ribs, typical and atypical thoracic vertebrae, intercostal muscles, anterior abdominal wall muscles, right and left crus of diaphragm, central tendon and major openings of diaphragm.**

FACILITIES: Department of Anatomy Dissecting Room

EQUIPMENT: Human prosected specimens, human skeleton

SUGGESTED LEARNING RESOURCES: Lectures, Gray’s Atlas of Anatomy, Department of Anatomy Museum

**PRACTICAL FOR FIRST YEAR
RESPIRATORY SYSTEM BLOCK**

PRACTICAL TWO:

“NASAL CAVITY – PHARYNX – LARYNX: ANATOMY & HISTOLOGY”

DAY & DATE	TIME	GROUP
Tuesday 18/12/2018	1:00 – 3:00	MALE A
Thursday 20/12/2018	9:00 – 11:00	MALE B
Tuesday 18/12/2018	1:00 – 3:00	FEMALE 1
Sunday 23/12/2018	1:00 – 3:00	FEMALE 2

OBJECTIVES:

At the end of the practical section, the students should be able to:

A- ANATOMY:

- Describe the roof, floor and medial wall (nasal septum) of the nasal cavity.
- Describe the lateral wall of nasal cavity (nasal conchae and nasal meatuses).
- Demonstrate the openings into the lateral wall of the nasal cavity.
- List the names and demonstrate the sites of the paranasal sinuses.
- List the parts of the pharynx.
- Describe the anatomy of each part of the pharynx (extent, communications, important structures in its wall).
- List and demonstrate the cartilages of the larynx.
- Demonstrate the important ligaments and membranes related to the larynx.
- **IDENTIFY THE FOLLOWING: Superior, middle and inferior conchae, superior, middle and inferior meatuses, sphenoidal recess, pharynx, frontal air sinus, sphenoidal air sinus, opening of auditory tube, salpingopharyngeal fold (tubal elevation), uvula, palatoglossal fold, palatopharyngeal fold, epiglottis, vestibular fold, vocal fold.**

B- HISTOLOGY:

- **IDENTIFY THE FOLLOWING STRUCTURES IN HISTOLOGICAL SECTIONS: nasal septum, pseudo-stratified columnar ciliated epithelium with goblet cells, larynx, epiglottis and mention their identifying (histological) features.**

FACILITIES: Department of Anatomy Dissecting Room and Histology lab.

EQUIPMENTS: Human prosected specimens and Histological slides.

SUGGESTED LEARNING RESOURCES: Lectures, Gray’s Atlas of Anatomy, Department of Anatomy Museum

**PRACTICAL FOR FIRST YEAR
RESPIRATORY SYSTEM BLOCK**

PRACTICAL THREE:

“TRACHEA, BRONCHI, PLEURAE & LUNGS: ANATOMY & HISTOLOGY”

DAY & DATE	TIME	GROUP
Wednesday 19/12/2018	10:00 – 12:00	MALE A
Thursday 27/12/2018	8:00 – 10:00	MALE B
Monday 24/12/2018	1:00 – 3:00	FEMALE 1
Thursday 27/12/2018	8:00 – 10:00	FEMALE 2

OBJECTIVES:

At the end of the practical section, the students should be able to:

A- ANATOMY:

- Describe the anatomy of the trachea and the bronchial tree.
- Differentiate, in the cadaver, between the right and left main bronchi.
- Differentiate, in the cadaver, between parietal and visceral pleura.
- Demonstrate on the cadaver and/or on a living body the lines of pleural reflection, as well as, the surface anatomy of the right and left lungs.
- Describe the anatomy of each lung regarding the shape and relations.
- Differentiate between the right and left lung.
- **IDENTIFY THE FOLLOWING STRUCTURES: trachea, right and left main bronchi, right and left lungs, fissures of the lungs, lingual of left lung, structures in the roots of both lungs, structures on the mediastinal surfaces of both lungs.**

B- HISTOLOGY:

- **IDENTIFY THE FOLLOWING STRUCTURES IN HISTOLOGICAL SECTIONS: trachea, lung, intrapulmonary bronchus, bronchioles, and mention their identifying (histological) features.**

FACILITIES: Department of Anatomy Dissecting Room and Histology Lab.

EQUIPMENT: Human prosected specimens and Histological slides.

SUGGESTED LEARNING RESOURCES: Lectures, Gray’s Atlas of Anatomy, Department of Anatomy Museum.

**PRACTICAL FOR FIRST YEAR
RESPIRATORY SYSTEM BLOCK**

**PRACTICAL FOUR:
“MEDIASTINUM”**

DAY & DATE	TIME	GROUP
Monday 7/1/2019	10:00 – 12:00	MALE A
Tuesday 8/1/2019	10:00 – 12:00	MALE B
Wednesday 9/1/2019	10:00 – 12:00	FEMALE 1
Thursday 10/1/2019	8:00 – 10: 00	FEMALE 2

OBJECTIVES:

At the end of the practical section, the students should be able to:

- Subdivide the mediastinum and demonstrate the boundaries of each subdivision.
- List the contents of each mediastinum.
- Demonstrate the contents of each mediastinum, as well as, the relations of each of them to the other contents in the same mediastinum.
- **IDENTIFY THE FOLLOWING:** esophagus, trachea, superior vena cava, right and left brachiocephalic veins, right and left vagus nerves, right and left phrenic nerves, azygos vein, arch of aorta, brachiocephalic artery, left common carotid artery, left subclavian artery, descending aorta, left and right sympathetic trunks.
- **IDENTIFY IN A POSTERO-ANTERIOR CHEST RADIOGRAPH:**
 1. **Bones:** clavicle, ribs, thoracic vertebrae and medial border of scapula.
 2. **Diaphragm:** right & left domes, cardiophrenic & costodiaphragmatic angles.
 3. **Trachea:** normal position.
 4. **Lungs and bronchi:** lung shadow, hilum & root of lung, pulmonary vessels.
 5. **Heart:** apex and borders.
 6. **Great vessels:** aorta, pulmonary trunk, superior vena cava.
 7. **Constituents of right border of the mediastinum:** right brachiocephalic vein, superior vena cava, right atrium and inferior vena cava.
 8. **Constituents of left border of the mediastinum:** aortic knuckle (aortic arch), pulmonary trunk, left auricle and left ventricle.

FACILITIES: Department of Anatomy Dissecting Room.

EQUIPMENT: Human prosected specimens, postero-anterior chest radiograph.

SUGGESTED LEARNING RESOURCES: Lectures, Gray’s Atlas of Anatomy, Department of Anatomy Museum.