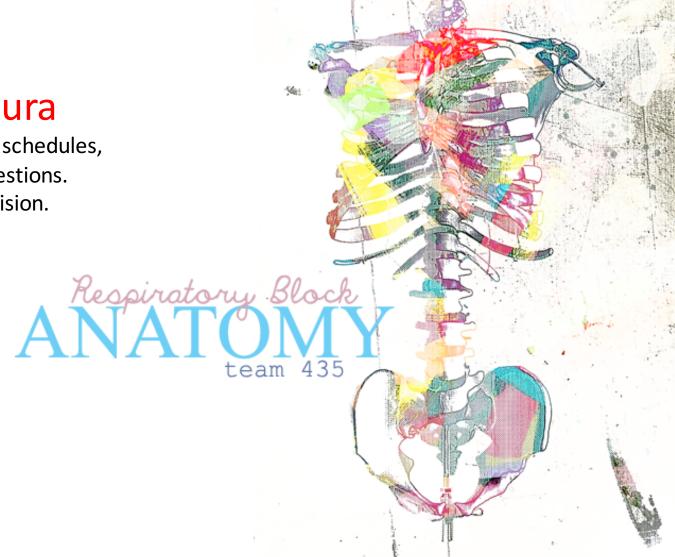


Lung & Pleura

This work contains schedules, summaries and questions.
And its only for revision.





	Lu	ng	Broncho- pulmonary segments	Pleura		
Nerve supply	autonomic pulmonary plexus	1- Sympathetic Fibers From sympathetic trunk Action: broncho-dilatation/and vasoconstriction.	autonomic nerves.	Parietal pleura sensitive to pain, pressure, temperature, and touch.	Costal pleura	intercostal nerves.
					Mediastina I pleura	phrenic nerves.
		2- Parasympathetic Fibers From Vagus nerve Action: Broncho-constriction and secretomotor to bronchial glands /and vasodilatation.			Diaphragm atic pleura	over the domes by phrenic nerves, around the periphery by lower 6 intercostal nerves.
				Visceral pleura sensitive to stretch only	autonomic fil plexus	bers from the pulmonary
arteries	lt <u>s</u>	Bronchial arteries (From descending aorta) supplies oxygenated blood Pulmonary artery which carries non-oxygenated blood from right ventricle to the lung alveoli.	segmental artery			
veins	•	Bronchial veins: drain into azygos & hemiazygos veins carrying non-oxygenated blood. 2 pulmonary veins: carry oxygenated blood from lung alveoli to the left atrium of the heart.	The segmental vein lies in the intersegmental C.T. septa between the segments.			

- Costal surface is convex & covered by costal pleura
- Medial surface:

Mediastinal part: contain a Hilum

Vertebral part: related to bodies of thoracic vertebrae, intervertebral disk, posterior intercostal vessels, sympathetic trunk

- The right and left lung root both have superior pulmonary artery, 2 pulmonary veins. they differ in the number of bronchi, right has 2, left has 1 only.
- Right lung: larger, shorter, divided by 2 fissures to become 3 lobes
- Left lung: divided by one oblique fissure into 2 lobes, has a cardiac notch at lower border of anterior border.

- Mediastinal surface of right lung: Azygos vein, Vagus nerve, Esophagus POSTERIORLY. Phrenic nerve ANTERIORLY.
- Mediastinal surface of left lung: Descending aorta, Vagus nerve POSTERIORLY. Phrenic nerve ANTERIORLY.
- Blood supply of lung: bronchial arteries, bronchial veins, pulmonary artery., 2 pulmonary veins.
- Nerve supply of lungs from sympathetic & parasympathetic fibers.
- Right main bronchus divides before entering the hilum it gives superior lobar
- Lobar (secondary) bronchi segmental → (tertiary) bronchi bronchioles→ terminal bronchioles→ respiratory bronchioles→ alveolar ducts→ alveolar sacs→ alveoli
- bronchopulmonary segments are subdivisions that are pyramidal in shape.

Has: segmental bronchus, segmental artery, lymph vessels, autonomic nerves.

The segmental vein lies between the segments

- Pleura is a double-layered serous membrane completely enclosing the lung.
- It has two layers: Partial & Visceral and a pulmonary cavity In between that contains (5-10 ml) fluid.
- Partial pleura is divided according to the region in which it lies and the surface it covers, into:

1-Cervical pleura 2-Costal pleura 3-Mediastenial pleura 4-Diaphragmatic pleura

Pleural Recesses: The lung expand into the recess during forced inspiration.

1- Costodiaphragmatic 2- Costomediastenial

Pleura Nerve supply:

1-Partial pleura: SENSETIVE TO: Pain, Pressure, Temperature and Touch

2-Visceral pleura: SENSETIVE TO: Stretch

Pleural effusion: Abnormal accumulation of fluid about 300 ml which compress the lung

Auscultation is a skill done to listen to lungs -> during pleural effusion you will hear faint & decreased lung effusion

Surface anatomy of:

Right Pleura: 1 inch above medial 1/3 of the clavicle to 6th costal cartilage to 8th rib to 10th rib to last thoracic spine.

Left Pleura: 1 inch above medial 1/3 of the clavicle to 4th coastal cartilage as it <u>deviates</u> 1 inch to left 6th costal cartilage to form cardiac notch to 8th rib to 10th rib to last thoracic spine.

Lung: Same as the pleura but slightly away from median plane but it reach the 10th thoracic spine.

- The lung contains two fissures: Oblique fissure & Transverse fissure (Only in the right lung)
- Lungs: Is a conical organ that is located in the thoracic cavity on each side of the mediastinum that is covered by the visceral pleura
- It is a attached to visceral pleura by only one root
- It has two borders: Anterior and posterior



Q1: The lowest extent of the pleural cavity, into which lung tissue does not extend, is known as the

.A-Costodiaphragmatic recess

B-costomediastinal recess

.C-inferior mediastinum

.D-pulmonary ligament

Ans: A

: Q2: The portion of the parietal pleura that extends above the first rib is called the

A- costodiaphragmatic recess

B- costocervical recess

C-cupola

D- costomediastinal recess

Ans: C

:Q3: the costal pleura is segmentally supplied by

.A-intercostal nerves

.B-phrenic nerve

.C-autonomic fibers

.D-vagus nerve

Ans: A

- ?Q4: The Mediastinal pleura is supplied by which nerve
- .A-intercostal nerves
- .B-vagus nerve
- .C-sympathetic trunk
- .D-phrenic nerve
- Ans: D
- :Q5: The cardiac notch is between the
- .A-8th and 10th costal cartilages
- .B-4th and 6th costal cartilages
- .C-3rd and 6th costal cartilages
- .D-4th and 7th costal cartilages
- Ans: B
- ..Q6: visceral layer of pleura covers
- .A-thoracic wall
- .B-abdomen wall
- .C-surface of the lung
- .D-pulmpnary ligament

And: C

:Q7: pleural effusion is an abnormal accumulation of the pleural fluid in the .A-costomediastinal pleura recess .B-costodiaphragmatic recess .C-costal pleura .D-cervical pleura Ans: B :Q8: cervical pleura project up into the neck about one inch the of clavicle A-below - medial 1/3rd B-below - lateral 1/3rd C-above - medial 1/3rd D-above - lateral 1/3rd Ans: C ?Q9: which one of parietal pleura continuous with visceral pleura .A-cervical pleura .B-costal pleura .C-mediastinal pleura .D-diaphragmatic pleura Ans: C

:Q10: costomediastinal recess is between costal and mediastinal pleurae along the
.A-anterior border of the lung
.B-medial border of the lung
.C-lateral border of the lung
.D-inferior border of the lung
Ans:A
:Q11:visceral pleura is sensitive to which one of the following
.A-temperature
.B-pressure
.C-stretch
.D-pain
Ans: C
:Q12: parietal pleura is sensitive to all of the following EXCEPT
.A-touch
.B-pain
.C-pressure
.D-stretch
Ans: D

- 13-True or false: right lung presents a cardiac notch at its lower border?
- A- true
- B- false
- 14- Lung's Costal surface covered by
- A- parietal pleura
- B- costal pleura
- C- visceral pleura
- D- diaphragmatic pleura
- 15- Lung's Apex is anteriorly grooved by
- A- aorta
- B- bronchial artery
- C- subclavian artery
- D- pulmonary artery
- 16- Another name for anterior part of the lung
- A- mediastinal
- B- vertebral
- C- diaphragmatic
- D- cardiac

13-B (left lung)

14- B

15- C

16-A

:SAQ

List the parietal pleura parts and mention the nerves supply for each :one of them

- .Mediastinal pleura supplied by phrenic nerve-1
- .costal pleura supplied by intercostal nerve-2
- diaphragmatic pleura supplied by 2 nerves phrenic nerve over the-3 .domes and lower 6 intercostal nerves around the periphery
- .cervical pleura-4

?What is the pleural effusion

It is an abnormal accumulation of pleural fluid about 300 ml (normally .5-10 ml fluid) in the costodiaphragmatic pleural

هذا العمل إجتهاد من طلاب و طالبات إن أصبنا فمن الله وإن أخطأنا فمن أنفسنا و من الشيطان

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