

Four stations

First one:

- 1- Identify the rib and what is the side?
- 2- Two questions about radiology.

Second station:

It could be:

- Identify the conchae, meatus (and what is drain in), palate, paranasal sinuses.
- Identify the opening or the elevation.
- Identify the epiglottis, or one of the folds.

Third station:

About the hilum and the impressions of the lung.

Fourth station:

About mediastinum (one nerve, one artery, one tube, and the vein)



THE RIBS





- The shortest, Flat, Broad.
- Two surfaces:

Superior (rough), Inferior (Smooth).

- Two borders:

Inner (concave), Outer (convex).

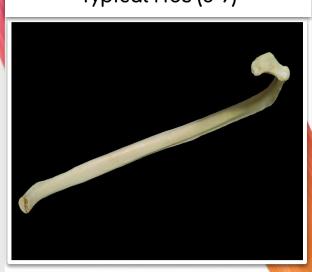
Second rib



- : Has costal groove (short).
- The tuberosity is superior.

لو حطيتها على الطاولة كل الطرفين بيلمسون الطاولة.

Typical ribs (3-9)



- Costal groove (for intercostal nerves & vessels) is inferior.
- Two borders: Upper (blunt, rounded), Lower (Sharp).

لو حطيتها على الطاولة بتشوف طرف يلمس الطاولة والطرف الثاني مرتفع عنها .. مستحيل الاثنين يكونو مع بعض مرتفعين او مع بعض يلمسون الطاولة.

How can you determine the side?

First step: Posterior and Anterior.

All the ribs have the same ends:

- Head contains facet followed by neck is **POSTERIOR**
- Flat end is **ANTERIOR**

Second step: Superior and Inferior.

1st ribs:

The rough surface is **SUPERIOR** and the smooth surface is **INFERIOR**

2nd ribs:

The tuberosity is **SUPERIOR**

Typical ribs:

The rounded border is **SUPERIOR** and the sharp border and the costal groove is **INFERIOR**

Then you can know if it's left or right

How to differentiate between the ribs?



When you see a short, flat rib and the surfaces are upper and lower that is the <u>first rib</u>. But when the surfaces are not clear " if it's upper & lower OR inner & outer " and there is costal groove in the inner that is the <u>second rib</u>

Finally, the typical ribs are long, the surfaces are Outer & Inner.

Identify? And determine the side.

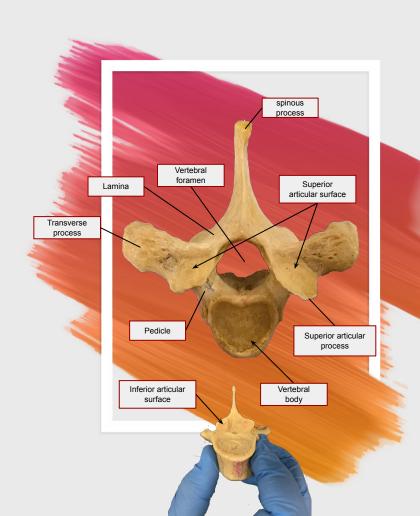
Thoracic vertebrae

Girl's doctor: In case there is a question of vertebra in the exam it will be "Identify" And There is ONE ANSWER:

Typical thoracic vertebra

common features:

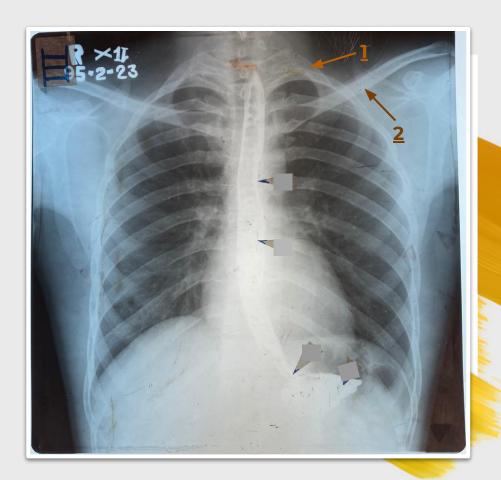
- -The body is medium sized, somewhat heart-shaped and has two costal Vertebrae demifacets on each sides (superior,Inferior) which receive the heads of the ribs.
- also the transverse processes have facets that articulate with the tubercles of the ribs.
 - spinous process (long hooks sharply downward)
 - Vertebral foramen (circular), pedicle, lamina.



Radiology 2 questions

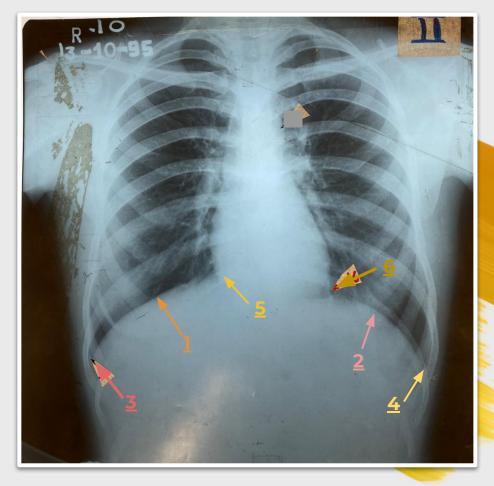


1-First Rib 2-Clavicle



1-Right dome of Diaphragm2-Left dome of Diaphragm3-Right Costodiaphragmatic angle4-Left Costodiaphragmatic angle5-Right Cardiophrenic angle6-left Cardiophrenic angle

Don't forget to write the side "Left or right"





Lateral wall of nasal cavity



Lateral wall of nasal cavity



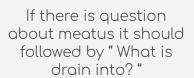
Inferior meatus
receives secretions
from the
nasolacrimal duct



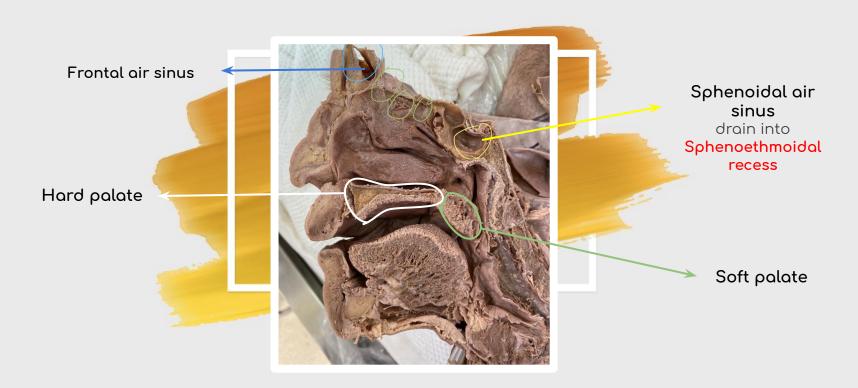
Middle meatus
receives secretions from
middle ethmoidal,
maxillary, frontal & the
anterior ethmoidal
sinuses



Superior meatus receives secretions from posterior ethmoidal sinus



Paranasal sinuses & The floor





Nasopharynx

Structures in the nasopharynx:

1. The opening of the auditory tube:

تقدرون تحددونها من خلال أنكم تحددون الـ Inferior conchae وبعدها تمشون على امتدادها لحد ما توصلون للفتحة

2. Tubal elevation: راح تكون فوق الفتحة مباشرة

It is not difficult at all! Opening or Elevation







Single cartilages

1. Epiglottis

Folds

2. Vestibular fold

3. Vocal fold





How to Answer Properly

1- Start with identifying the side.

- Check the number of lobes.

If it has 3 lobes then it is the right lung, however if it has 2 lobes only then it is the left lung.

على الأغلب ما يجي سؤال في الاختبار يطلب تحددون السايد لكن ضروري تعرفونه عشان تكتبونه عند كل إجابة في ال

hilum & impressions

2- After you've identified the side, bear in mind that:

- If it's the **Right** lung, you will find <u>openings</u> of: **2 bronchus, 1 artery, 2 veins.**
- If it's the **Left** lung, you will find <u>openings</u> of: **1 bronchus, 1 artery, 2 veins.**

3- Now you need to differentiate each opening.

- . (ملمسها قاسي وناشف) Openings for bronchus is cartilaginous
- Opening for the pulmonary artery is soft.

نفترض طلعت لكم الـ lung اليمين، اول شي المسوا وطلعوا الفتحات القاسية الـ bronchus وعددهم بيكون ٢، وبين فتحتين البرونكس هذي بتحصلون فتحة الـ artery محشور بينهم، المراد ومن قدام مرره بتكون للـ vein.

الحين نفترض طلعت لكم الـ Ung اليسار، نفس الشي المسوا وطلعوا فتحة الـ bronchus القاسية، فوقها على طول بتحصلون فتحة الـ ung. والـ veins عادي بنفس مكانهم ماتغيروا (أو بطريقة أسهل هذولي أصلاً مترتبين، فوق اول شي الأرتري وتحته البرونكس وتحته على طول الإنفيرور فين وعاد اللي باقي هو السوبيرور فين) "

What is left is the artery

Right Lung



Left Lung



محشور بین برونکس فوقه وبرونکس تحته

Bronchus

It is best to feel for the cartilage on the borders of each hole to find the bronchus

Right Lung لا ننسی الیمین عندها ۲ برونکس





Superior & Inferior Pulmonary Vein

After distinguishing the bronchus, the veins are found most anterior and inferior to the bronchus

Right Lung

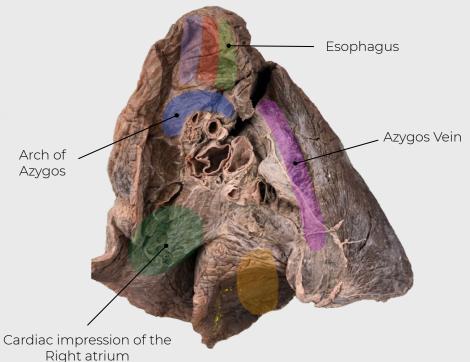


Left Lung

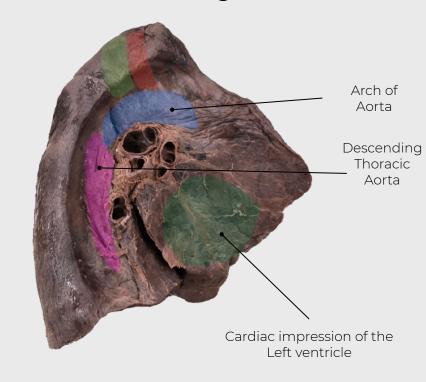


IMPRESSIONS

Right Lung



Left Lung



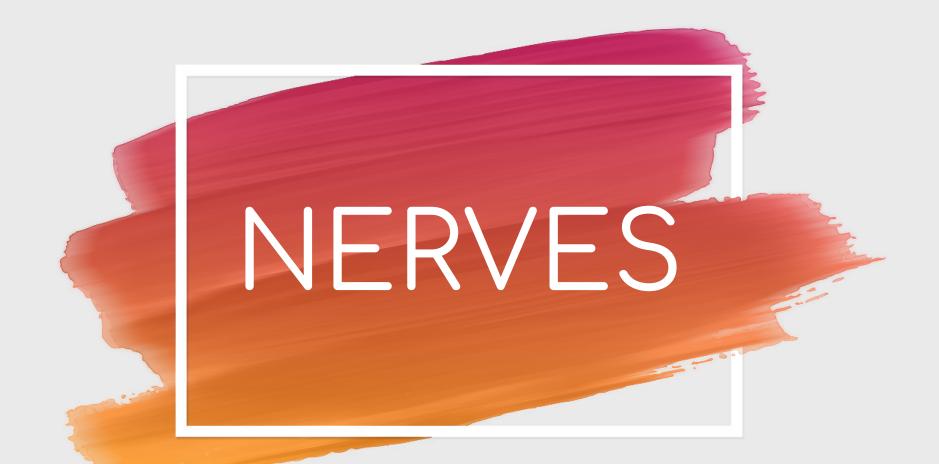


One nerve, one tube, one artery



Azygos vein اکثر شيء يميزه أنه ملتصق على thoracic vertebrae ويكون فقط ع الجهة اليمنى من الجسم





بيكون واضح جدًا يا بحيث ينمسك النيرف عند Neck, then you will write VAGUS أو ينمسك نيرف متصل مع الـ Diaphragm, then you will write PHRENIC

Vagus nerve

(C10)

"Short, Start from the neck" "and penetrate trachea"

Phrenic nerve

(C3,C4,C5)

"Long, contentious at the diaphragm "

Don't forget to write the side "Left or right "





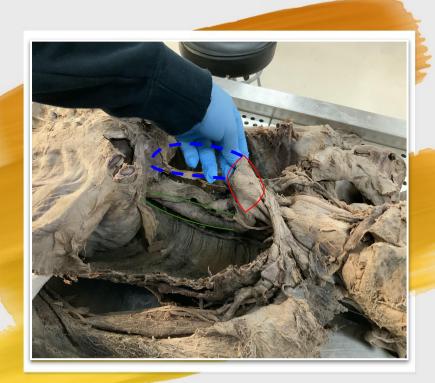
Ascending aorta

Cut from the specimen and most likely we won't see it

Arch of aorta

Descending aorta

Directly behind the esophagus



Arch of the aorta gives rise to 3 arteries:

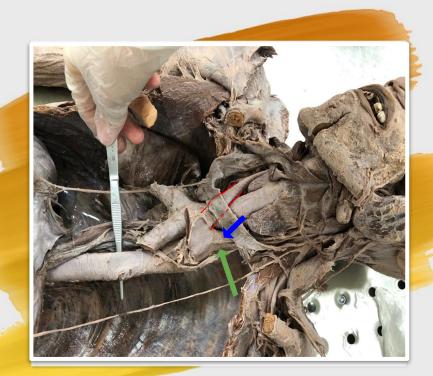
From right to left

Brachiocephalic artery "Right"

<u>Left</u> common carotid artery

2

<u>Left</u> subclavian artery



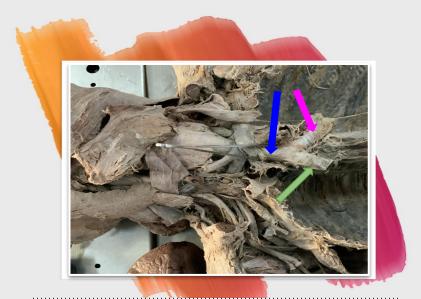




Esophagus

Muscle

تيوب ناشفة وموجودة في اليسار فقط بتكون Descending aorta And if there is structure only in the right side and collapsed, it's azygos vein



Trachea

Rings of cartilage, white, Anterior

primary, principal" bronchus

Right "main, Left "main, primary, principal"

Don't stop until you are proud.

Team Members:

- Rania Almutiri
- Duaa Alhumoudi
- Nourah Alklaib
- Arwa Alqahtani
- Norah Alasheikh
- Najd Alzahrani
- Fatimah Alhelal
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- Khalid Alosaimii

- Hadi Alhemsi
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- Bassam Alasmari

