

LECTURE (3) MAJOR VEINS OF THE BODY

Done by : Reem Al Rakaf

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<u>تنوبه : هذا العمل لا يعتبر مصدر رئيسي للمذاكره وإنما هو للمراجعه فقط</u>

If there is any mistake please feel free to contact us:

Anatomyteam32@gmail.com



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OBJECTIVES

- 1. Define the 'vein' and understand the general principle of the veins.
- 2. Describe the role of the superior and inferior vena cavae & list the tributaries of each vein.
- 3. List major veins in the head, neck, thorax, abdomen, upper & lower extremities.
- 4. Describe the hepatic portal vein and list its tributaries.

تنويه : يوجد اختلاف كبير بين سلايدز الأولاد والبنات ، وننصح كل طرف بتحميل سلايد الطرف الأخر









Important Notes:

The veins have two Brachiocephalic veins, while the Arteries have only one.

Deep veins of the Upper limb is called: Vena Comitantes exept the Axillary and Subclavian veins.

Emissary veins are small veins that connect the superficial veins with the dural venous sinuses, and they are a possible avenue for infections to enter the cranial cavity (Clinical interest)

Emissary veins, **have no valves** so that has advantage and disadvantages, <u>the advantage</u> is that it maintains the inter cranial pressure so when the pressure in the brain rises the Emissary veins push the blood to the deep veins. <u>Disadvantages</u> is that it is susceptible to infections ,pus can flow into the skull through them as well, making them a possible route for transmission of extracranial infection to get into the skull. Damage the the Emissary veins can cause Subdural hematoma and will compress the brain

Veins of the Upper Limb

Superficial veins:

- Cephalic
- Basilic
- Median cubital

Deep Veins

- Venae comitantes of the Radial artery.
- Venae comitantes of the ulnar artery.
- Venae comitantes of the brachial artery.
- Axillary vein
- Subclavian: continuation of axillary, at the outer border of the first rib









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Veins of the Thorax

- The bronchial, esophageal and pericardial veins drain into superior vena cava or azygos vein
- The posterior intercostal veins drain into azygos and hemiazygos veins
- The anterior intercostal veins drain into the internal thoracic veins which drains into the corresponding brachiocephalic veins



Veins of the Abdomen

Veins returning from the digestive tract, pancreas, and spleen merge to form the hepatic portal vein, which <u>does not</u> join the inferior vena cava. Instead, it re-divides and flows into a network of sinusoids in the liver. This collection of two capillary beds (the intestinal capillaries and the hepatic sinusoids) and the hepatic portal vein connecting them is called *the hepatic portal circulation*

• Veins from the abdominal walls drain into the inferior vena cava



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Hepatic Portal Vein

- Drains the GIT, spleen, pancreas and gall bladder
- Delivers this blood to the liver
- Formation: Formed by the union of the superior mesenteric vein and the splenic vein. The Inferior mesenteric vein drains into the splenic vein
- Liver is drained by hepatic veins which open into the inferior vena cava



Useful Videos:

http://youtube.com/watch?v=sI6yXy3u2sI http://youtube.com/watch?v=ZQd73stLZl8







MCQs

1- common iliac vein drain in:

- a- External iliac vein
- **b- Inferior vena cava**
- c- superior vena cava
- d- phrenic vein

2- All those organs are drained in the superior vena cava except:

- a- lungs
- b- upper limb
- c- perineum
- d- Neck

3- the superior vena cava is formed by the union of:

- a- two brachiocephalic vein
- b- Azygus and pericardial vein
- c- internal jugular and subclavian vein
- d- none of the above

4- inferior vena cava is formed at the level of:

- a- T5
- b- T2
- **c- L2**
- d- L5

5- Deep vein of the head and neck are drained in the:

- a- external jugular vein
- b- internal carotid vein
- c- external carotid vein
- d- internal jugular vein

6- Which one of those upper limb veins are deep?

- a- Cephalic
- b- Bacilic
- c- Axillary
- d- Medial cubital





7- Posterior intercostal vein drain into

- a- Azygus vein
- b- hemiazygus vein
- c- both a and b
- d- inferior vena cava

Answers

- 1- b
- 2- c
- **3-** a
- **4- d**
- 5- d
- 6- c
- 7- c



Anatomy team leaders:

Majed Al sheikh & Eman Al-Bediea

