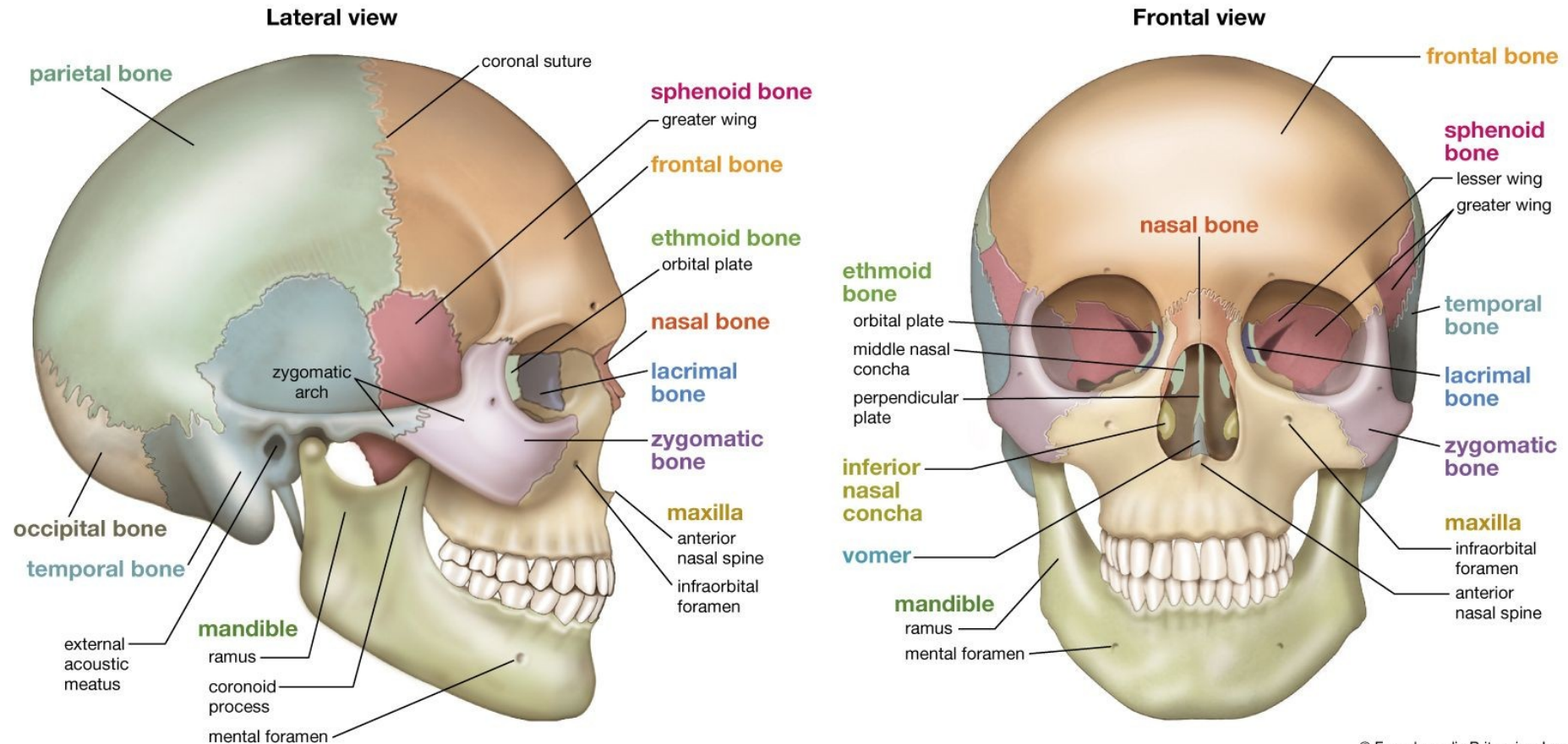
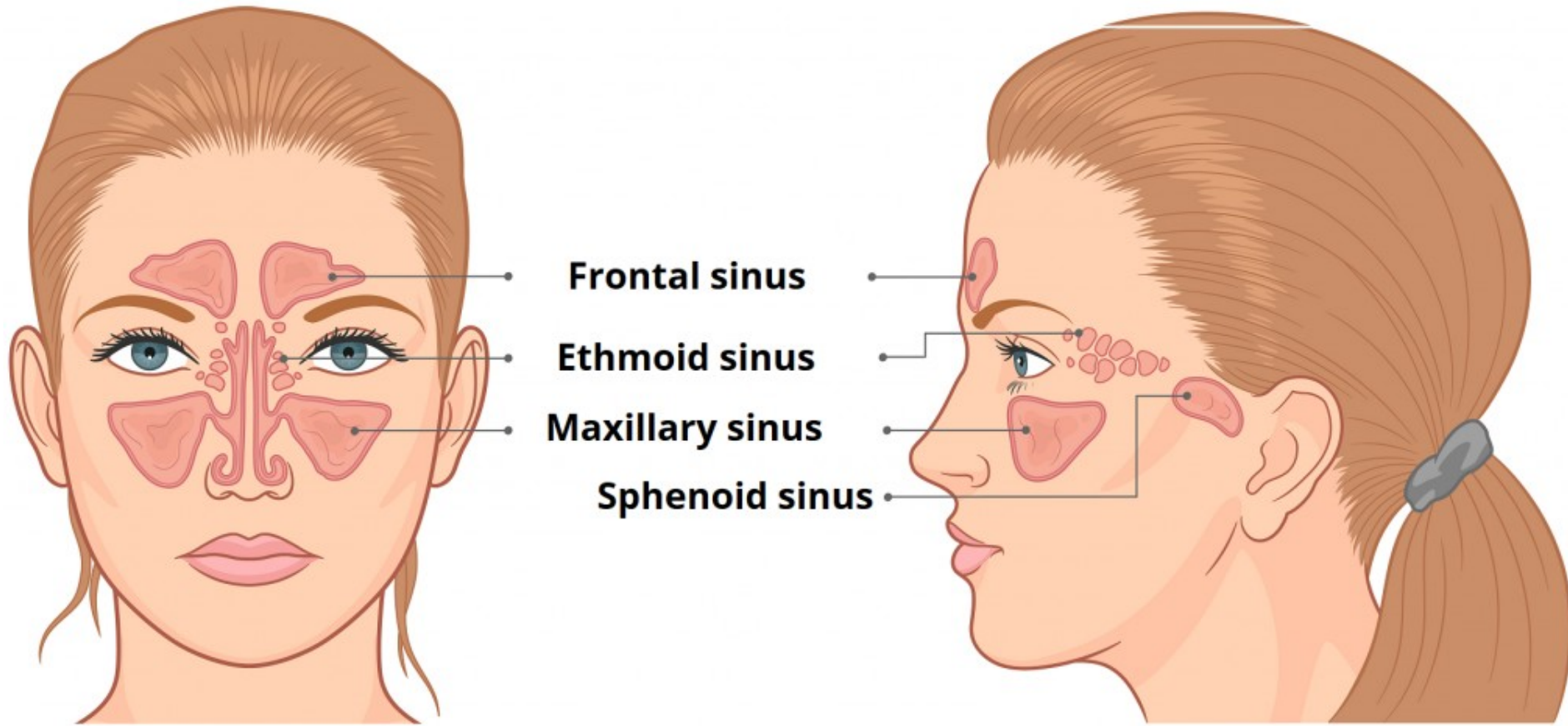


Kostra - lebka

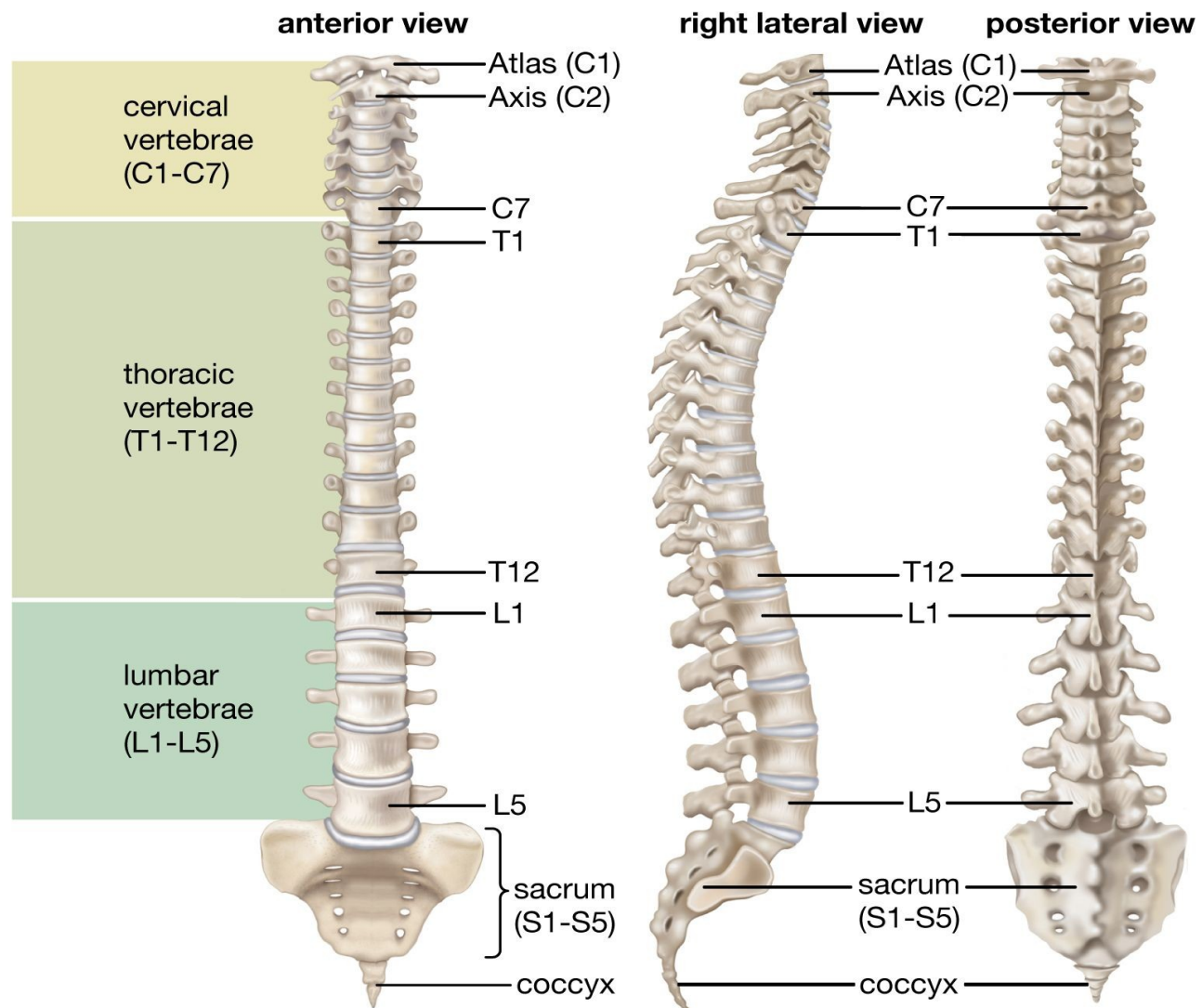


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Vedlejší dutiny nosní – sinusi paranasales



Páteř – Columna vertebrarum



<https://www.britannica.com/science/ve>

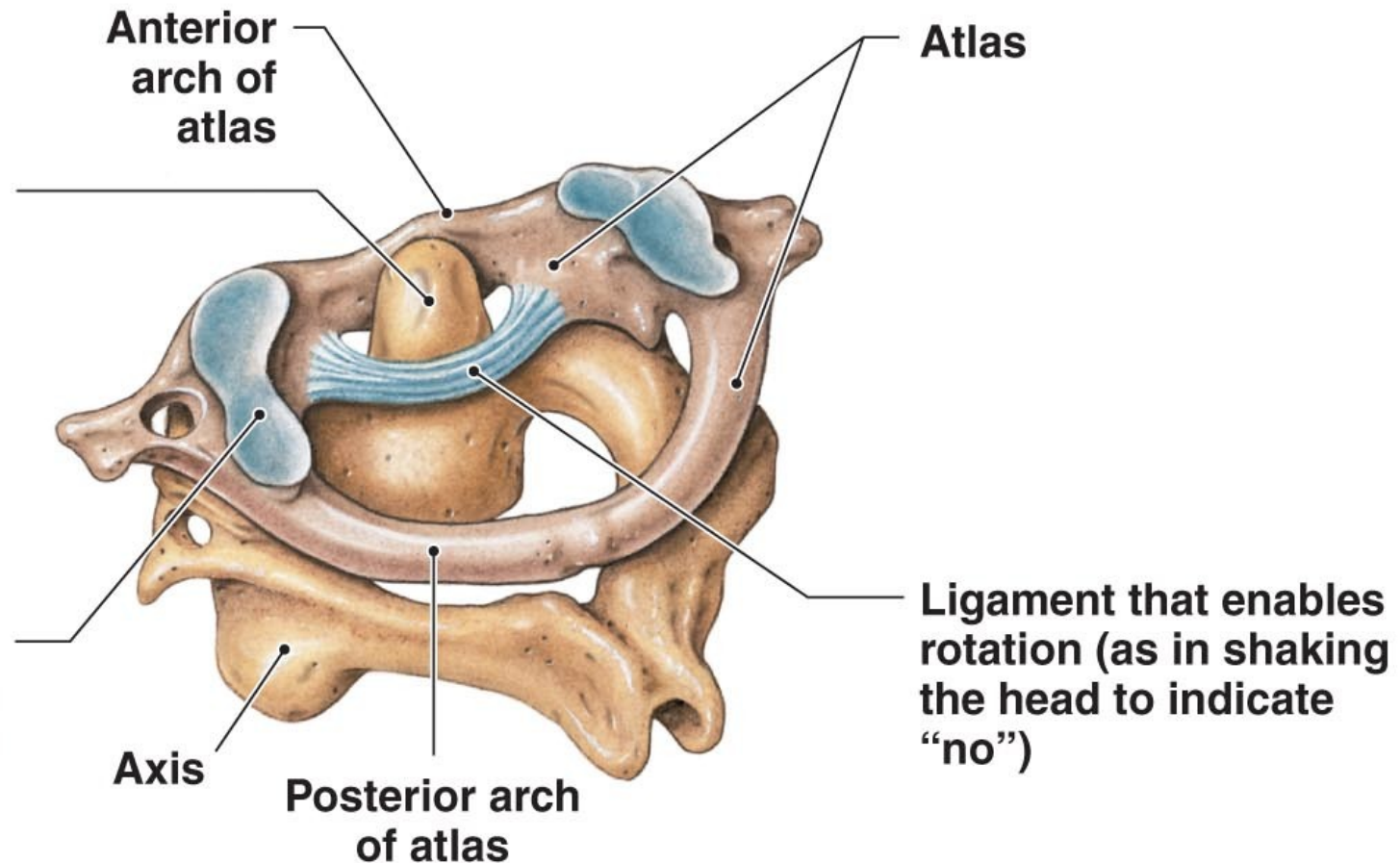
Spojení Atlas – axis C1- C2

<https://youtu.be/amOPxAXGK4>

The first two cervical vertebrae: the atlas and the axis

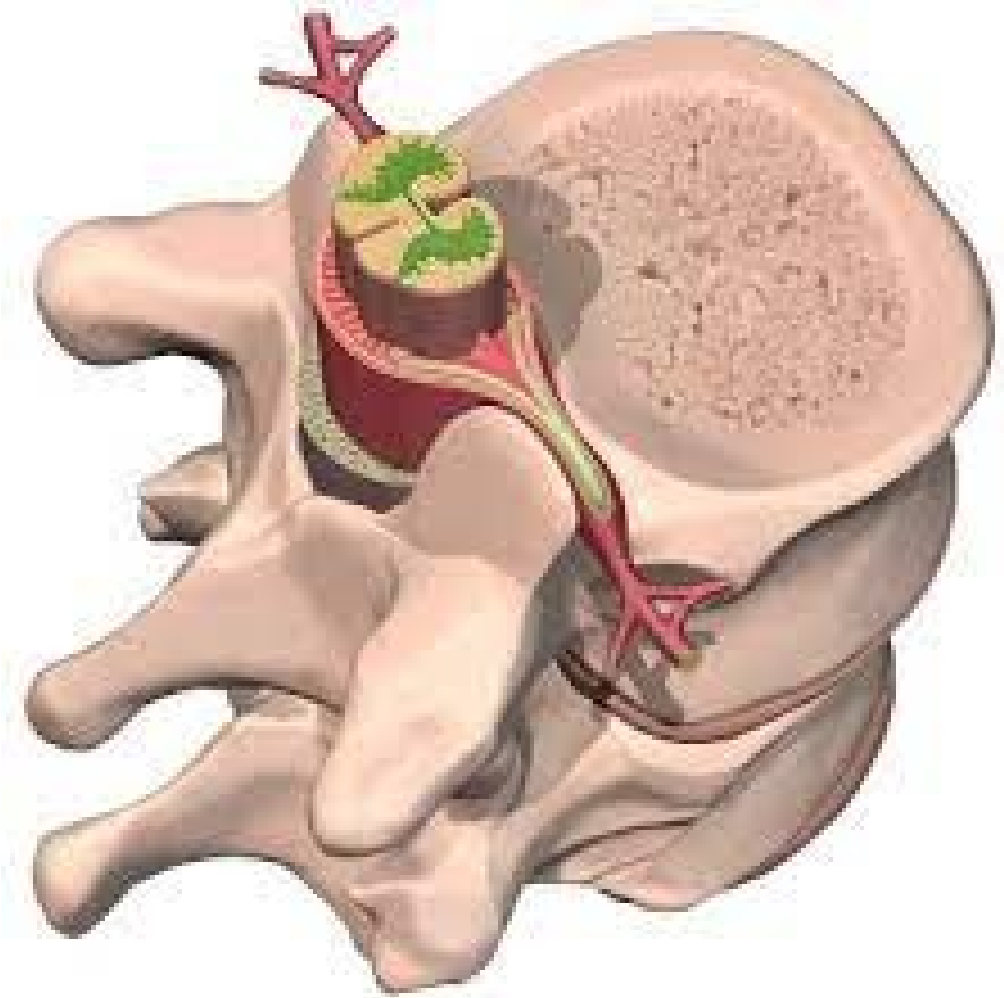
Dens (odontoid process)

Joint that permits nodding (as in indicating “yes”)



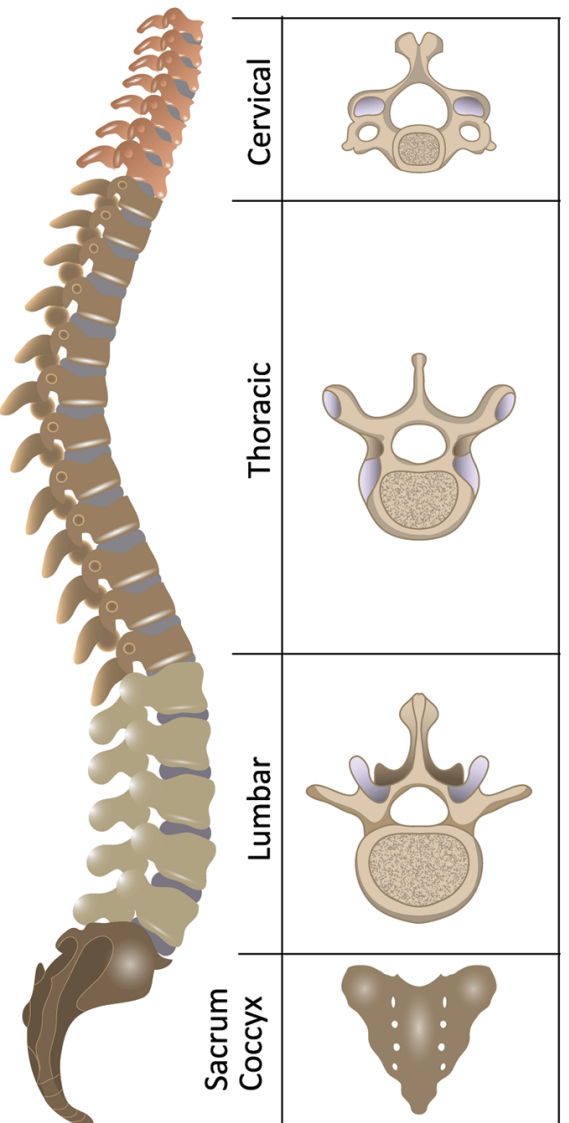
https://www.google.cz/search?q=connection+atlas+axis&tbm=isch&ved=2ahUKEwibrTbG0sZ7AhXBz7siHcvZDJEQ2-cCegQIABA&oeq=connection+atlas+axis&gs_lcp=CgNpbWwCQAZoECAAQzofCAAQgAAQ6CAgAEIAELEDogQIABBAeOgcIABCAABBA TOglABAFEB4QEZolCAAOQBAAEEM6BggAEAgQHICjCvicOWCaQWgAcAB4AIAB8QGIAlfQkGEFMTIuMTcVAOCgAAQgqAQind3Mt d2l6LWltZ8ABAAQ&scIent=img&ei=h3GCy9vOLGf7_UPy7OzIAk&bih=609&biw=1263&hl=cs#imgrc=CWUW64w00eZEUm

https://www.google.cz/search?q=outputs+nerves+from+vertebrae&tbm=isch&ved=2ahUKEwif_oXR1sz7AHXUXgIHHTCcb2UQ2cCegQIABAA&dq=outputs+nerves+from+vertebrae&gs_lcp=CgNpbWcQAzoFCAAQgAQ6BAGAEEM6BgAEACQHjoiCAAOQBABEB50tYzgHFg6HVoAXAAEACACACMBIAG5F5piBBDguIMTOYAQCgAQGqAQCtrnd3Mtd2l6LWIz8ABAQ&scit=img&ei=23WCY8X3DtsNi-gPslieqAV&bih=255&biw=628#imgrc=YcdxTPfBR3h5M



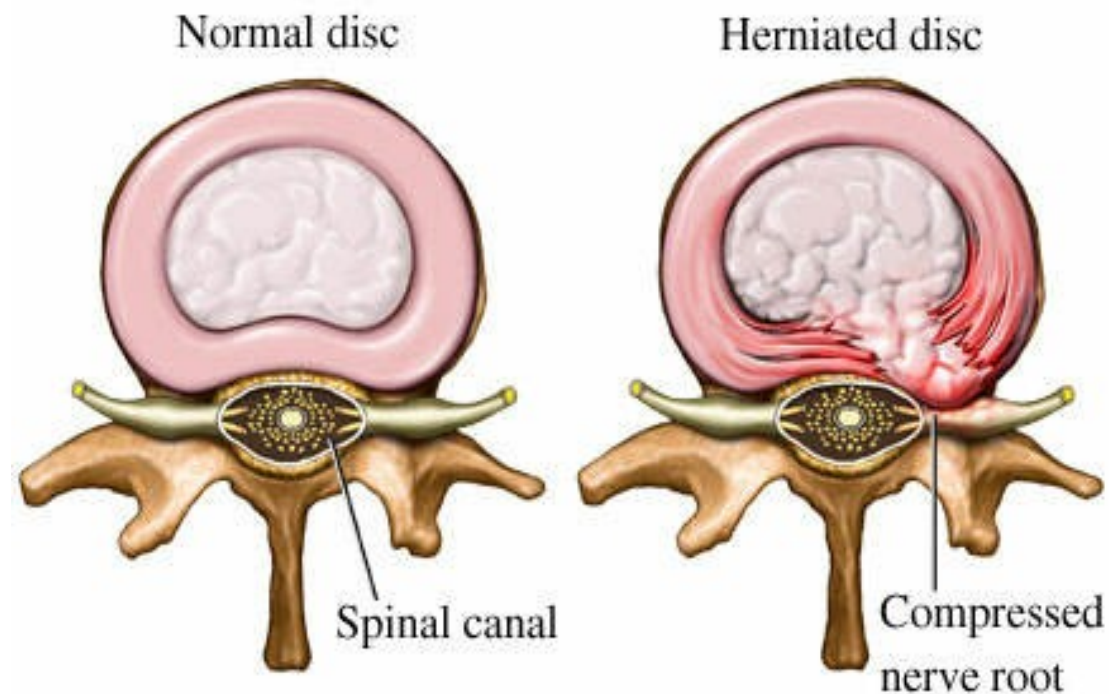
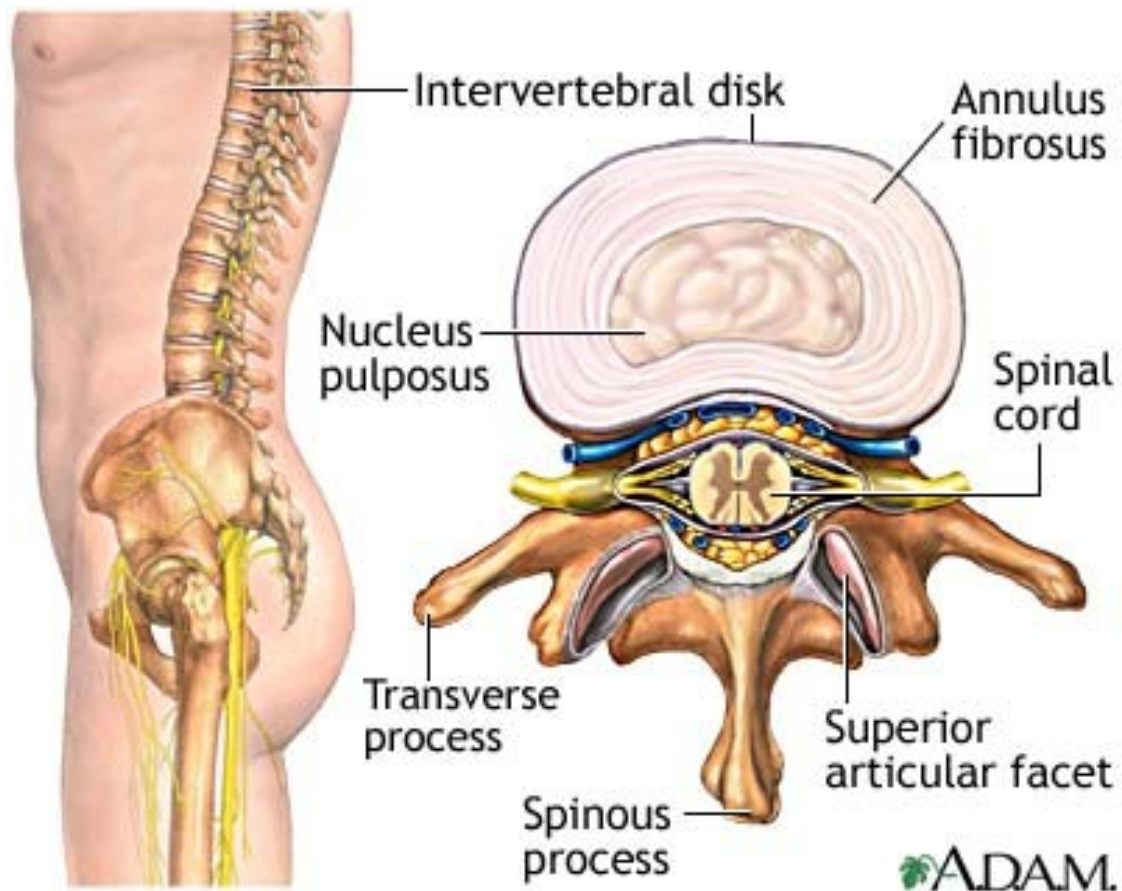
vertebra,

Obratel, stavba
vertebrae



https://www.google.cz/search?q=vertebrae&source=lm&tbm=isch&sa=X&ved=2ahUKEwjt0ivQ1sz7AhVcSKQKHb9aAa4Q_AUoAXoECAIQAw&biw=628&bih=255&dpf=1.5#imgrc=10ycP5HITWIAW

Meziobratlové ploténky, discus intervertebralis

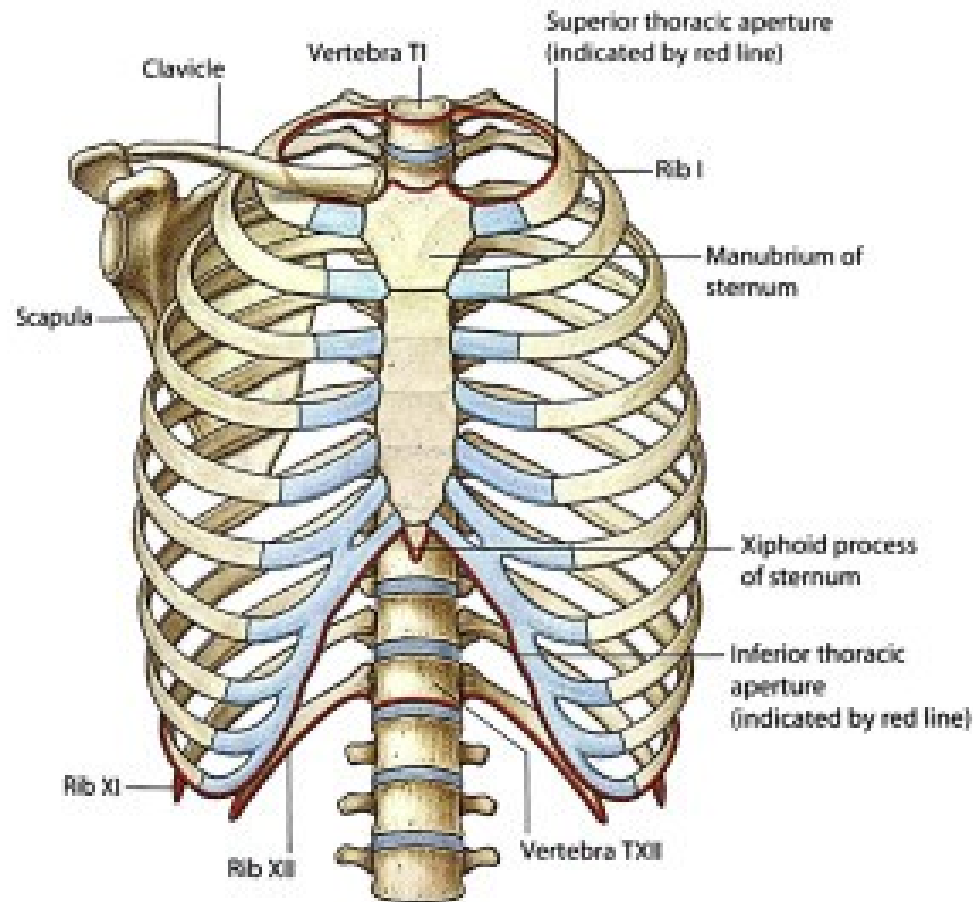


Top views of vertebrae

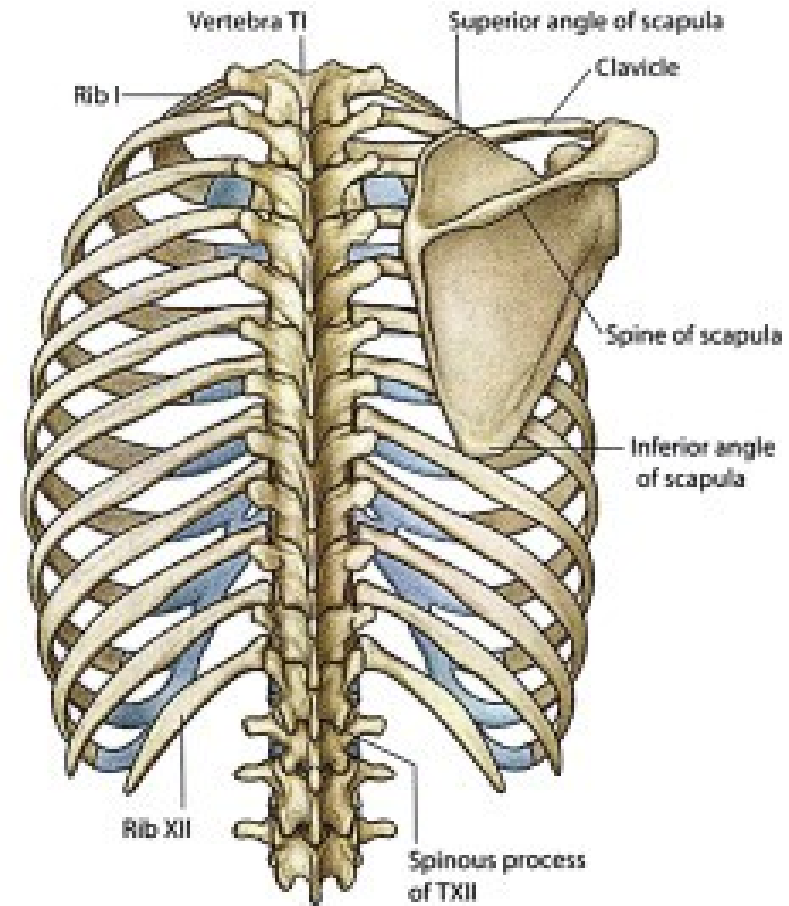
https://www.google.cz/search?q=discus+intervertebralis&tbm=isch&ved=2ahUKEwjz69O118z7AhX-xgIHdHdWc5AQ2-cCegQIABAA&oeq=discus+inter&gs_lcp=CgNpbWcQARgAMgUIABCABDIECAAQHjIECAAQHjIECAAQHjIECAAQHjIECAAQHjGCAAQBR AeMgYIABAIEB4yBAGAEb4yBAGAEb46CAgAEIAEELEDOgQIABBDULQJWLkhYNYvaABwAHgAgAGqAogBgwysAQULjguMZgBAKABA aoBC2d3cy13aXotaW1nwAEB&scient=img&ei=Q3aCY7O-NP6Ni-gP0OGtgAk&bih=255&biw=628#imgrc=qNgHlkOmRuirAM

https://www.google.cz/search?q=prolaps+discus+intervertebralis&tbm=isch&ved=2ahUKEwjkrMGE2Mz7AhWRNewKHTR9D9gQ2-cCegQIABAA&oeq=prolaps+discus+intervertebralis&gs_lcp=CgNpbWcQAZoFCAAQgAQ6BggAEAcQHjoECAAQHIDLLiaQGCqRGgA cAB4AIB0QGIAYglkgEFNC40LjGYAQcGQAQgAQtdnd3Mtd216LWitZ8ABAQ&scient=img&ei=R3eCY6TtJHrsAe0-r3ADQ&bih=255&biw=628#imgrc=jK64SpwG6sGqM

Hrudník, Thorax

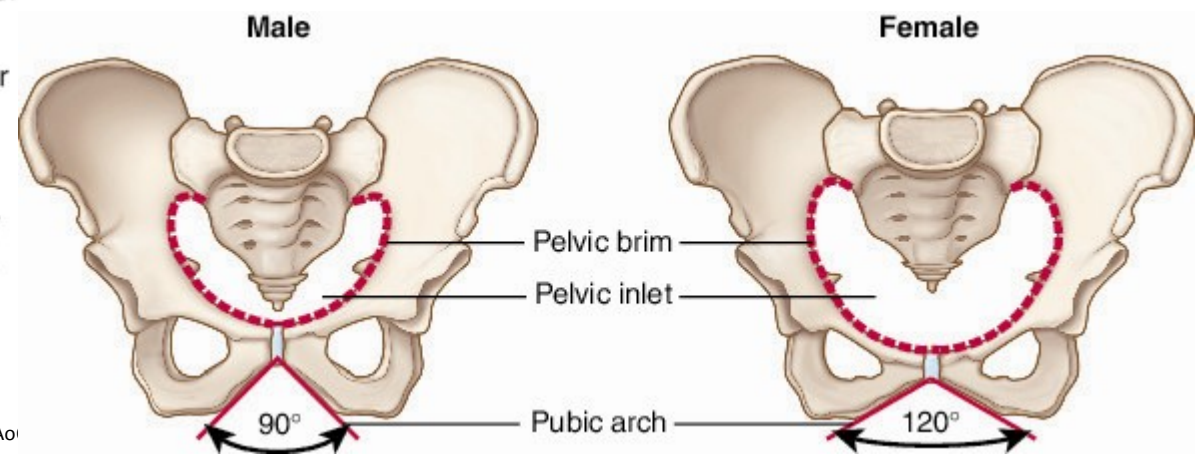
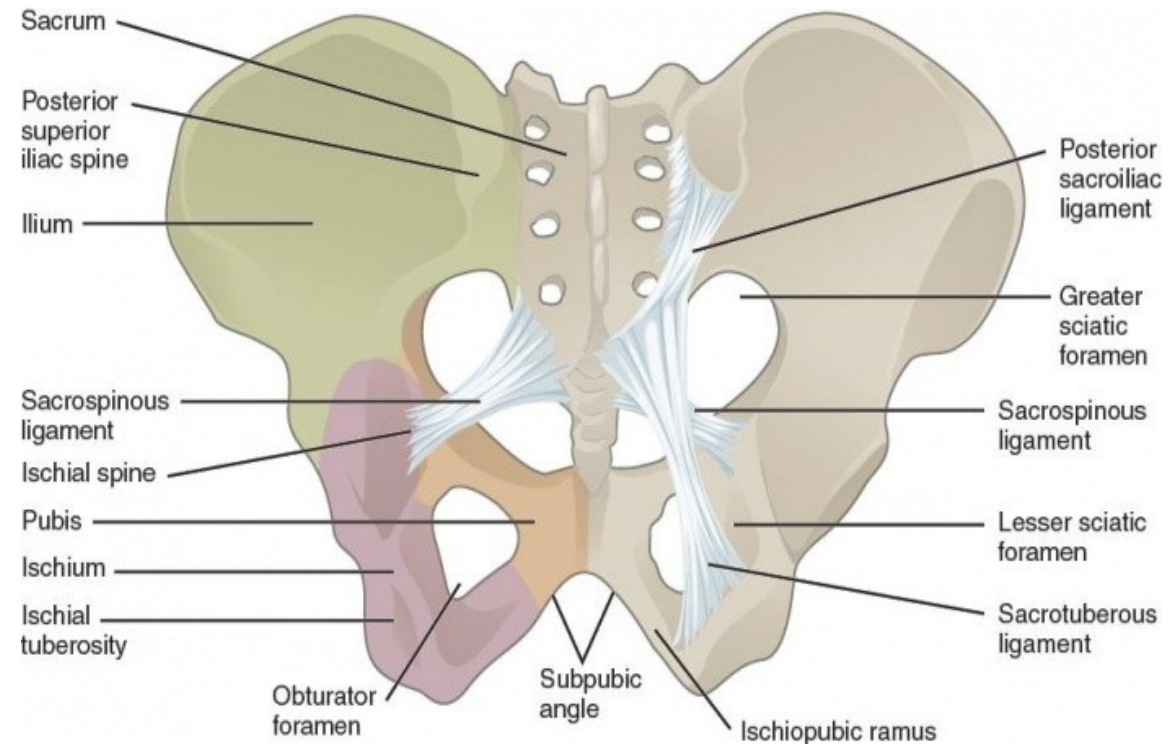
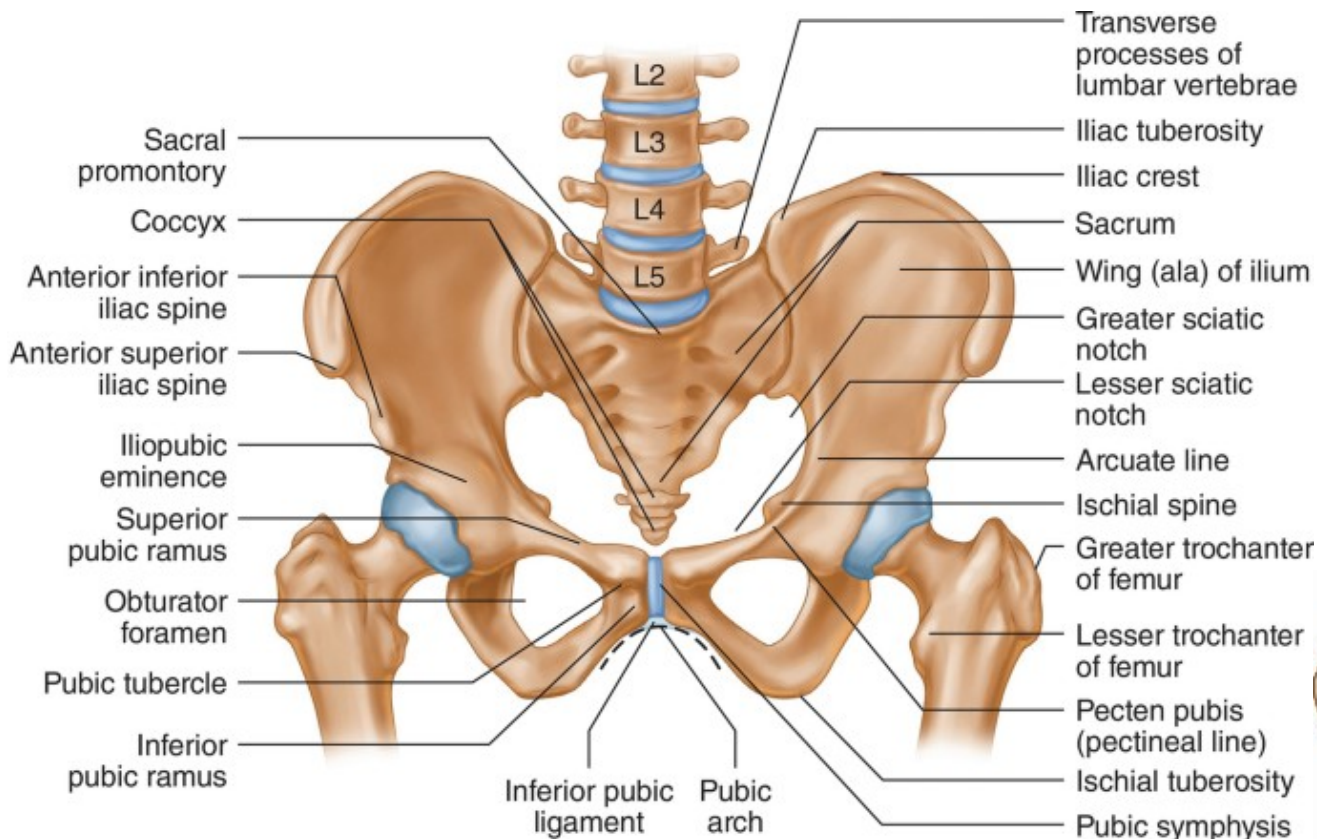


**Bony framework of thorax
(anterior view)**



**Bony framework of thorax
(posterior view)**

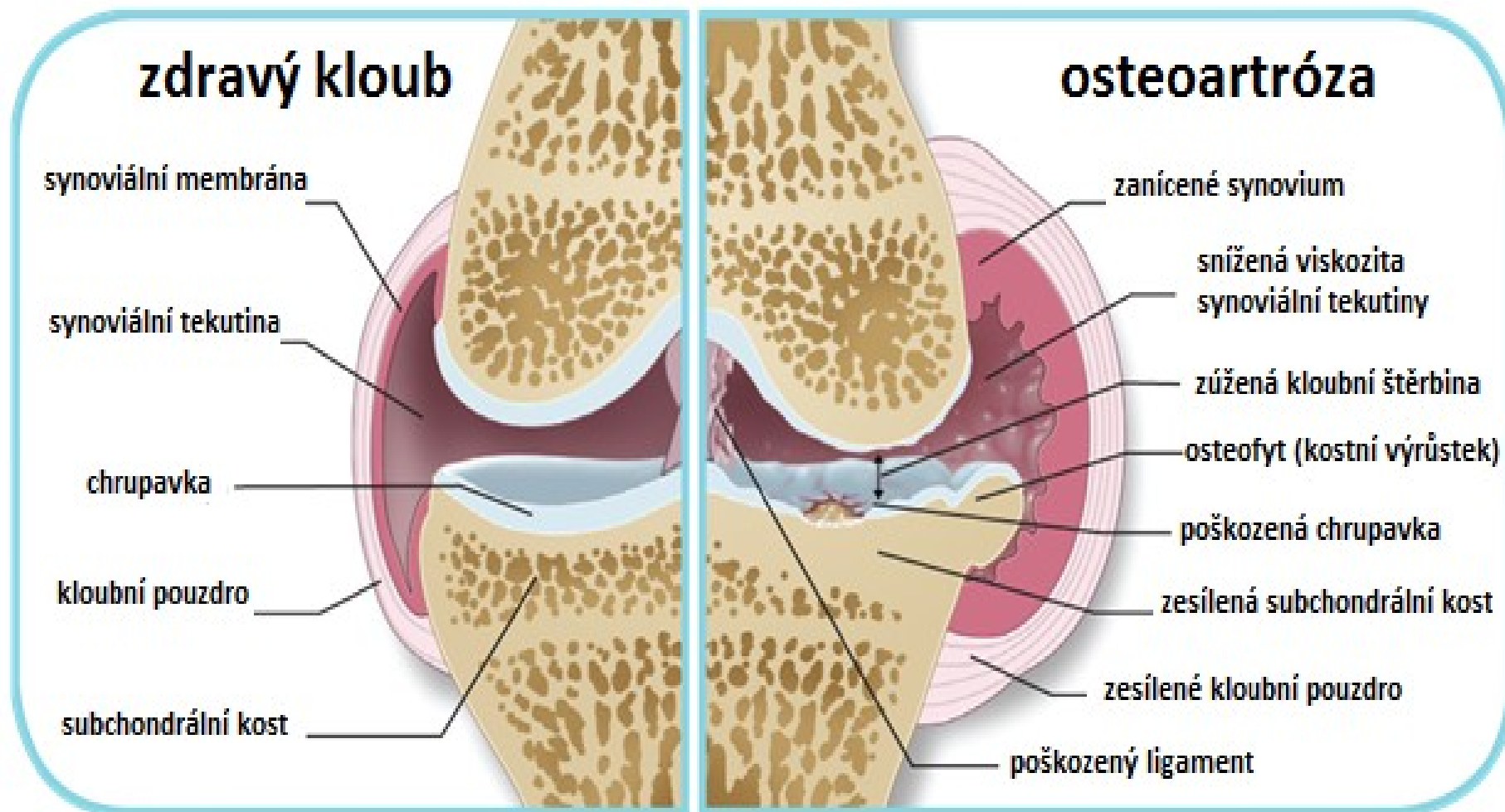
Pánev - pelvis



https://www.google.cz/search?q=pelvis&hl=cs&tbm=isch&source=lnms&sa=X&ved=2ahUKewiqjRH128z7AhX7iv0HHQ9XAGwQ_AUoAXoECAoAw&biw=1280&bih=609&dpr=1.5#imgrc=BlqFcEMwMyHyOM

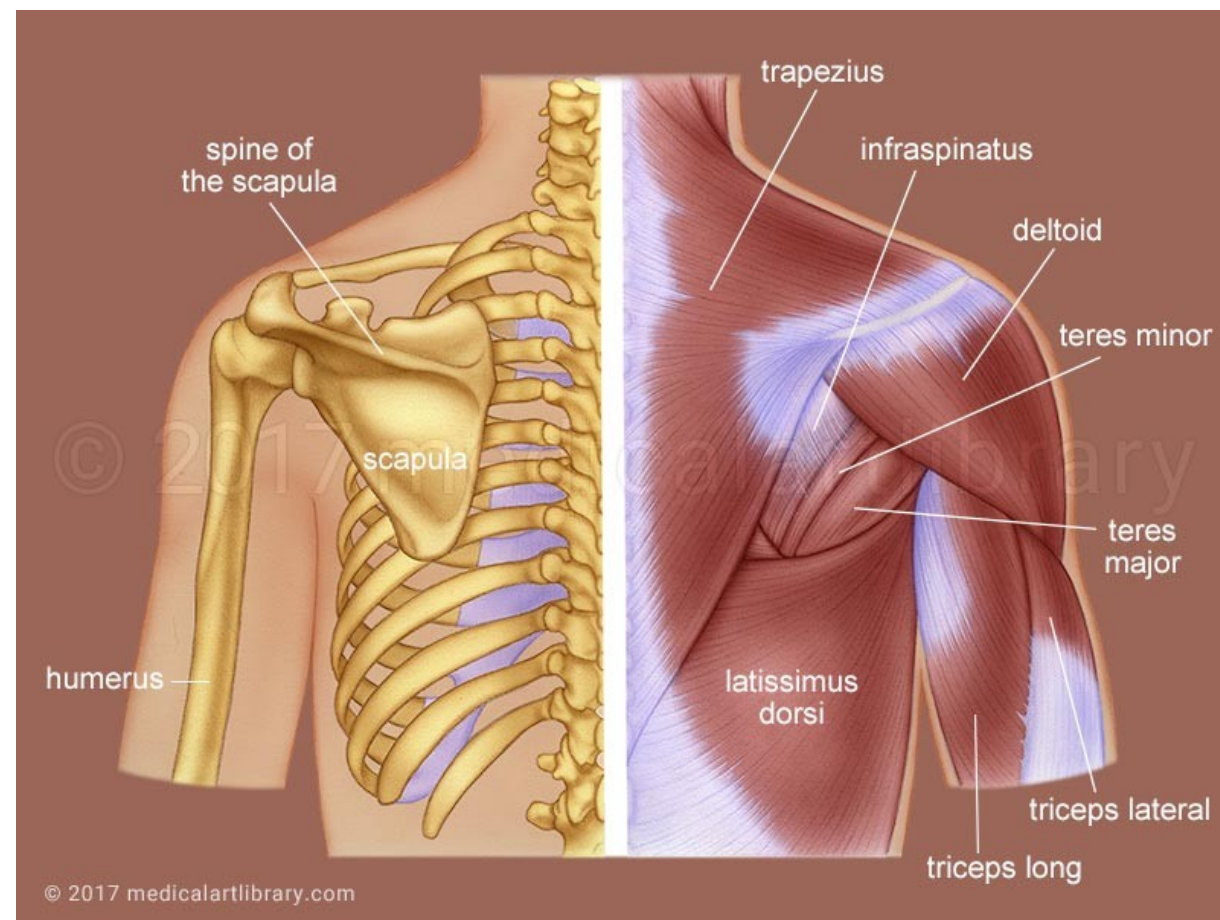
<https://nursing.unboundmedicine.com/nursingcentral/view/Tabers-Dictionary/764020/all/pelvis>

Stavba kloubu

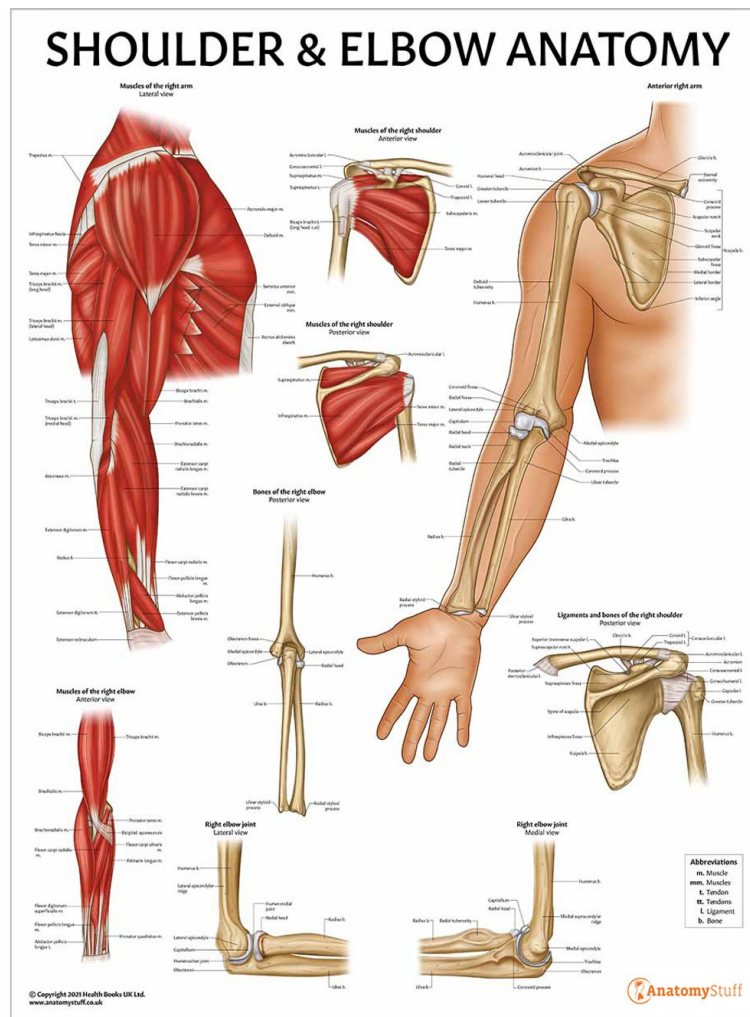


Ramenní kloub

- <https://www.youtube.com/watch?v=D3GVKjeY1FM>



Loketní kloub – articulatio cubiti



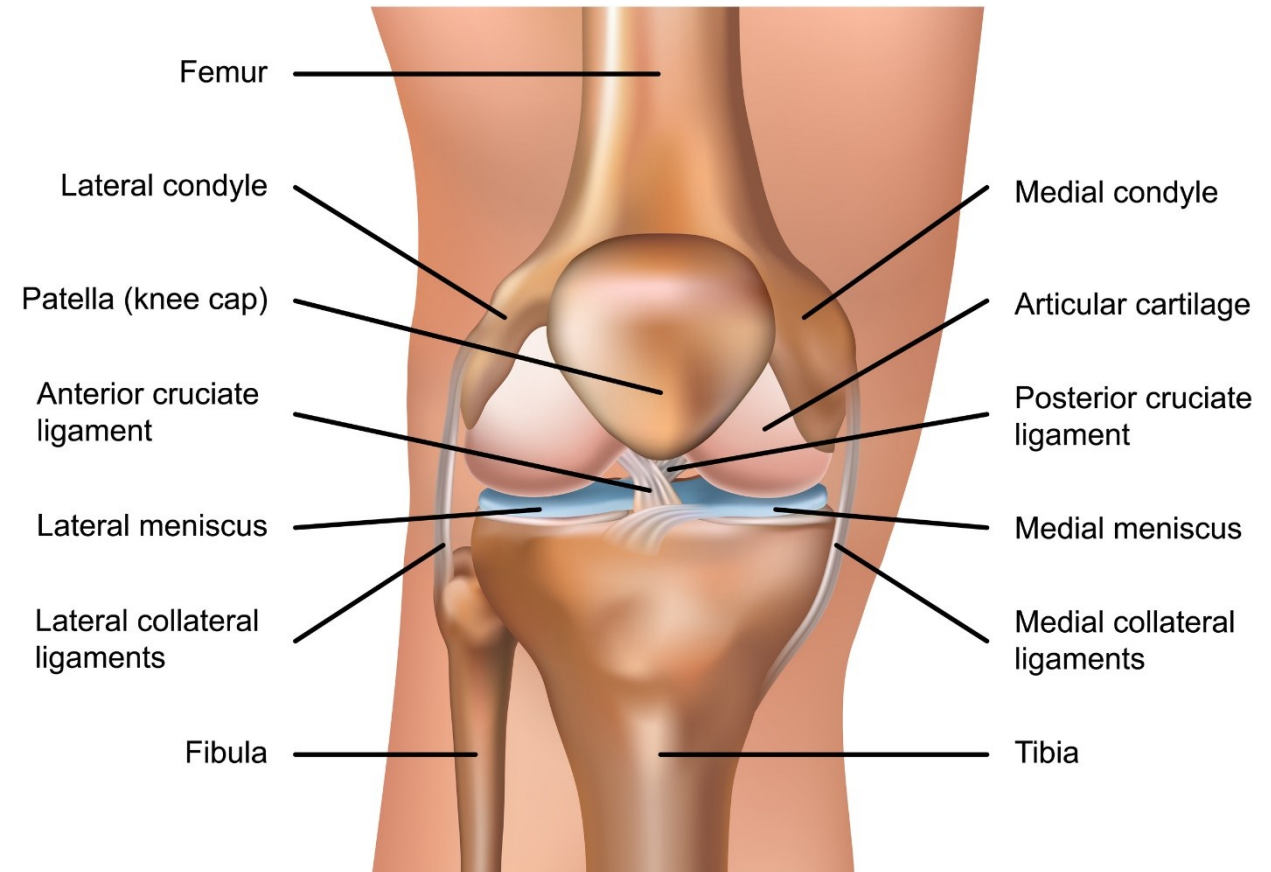
Klouby ruky – articulatio manus



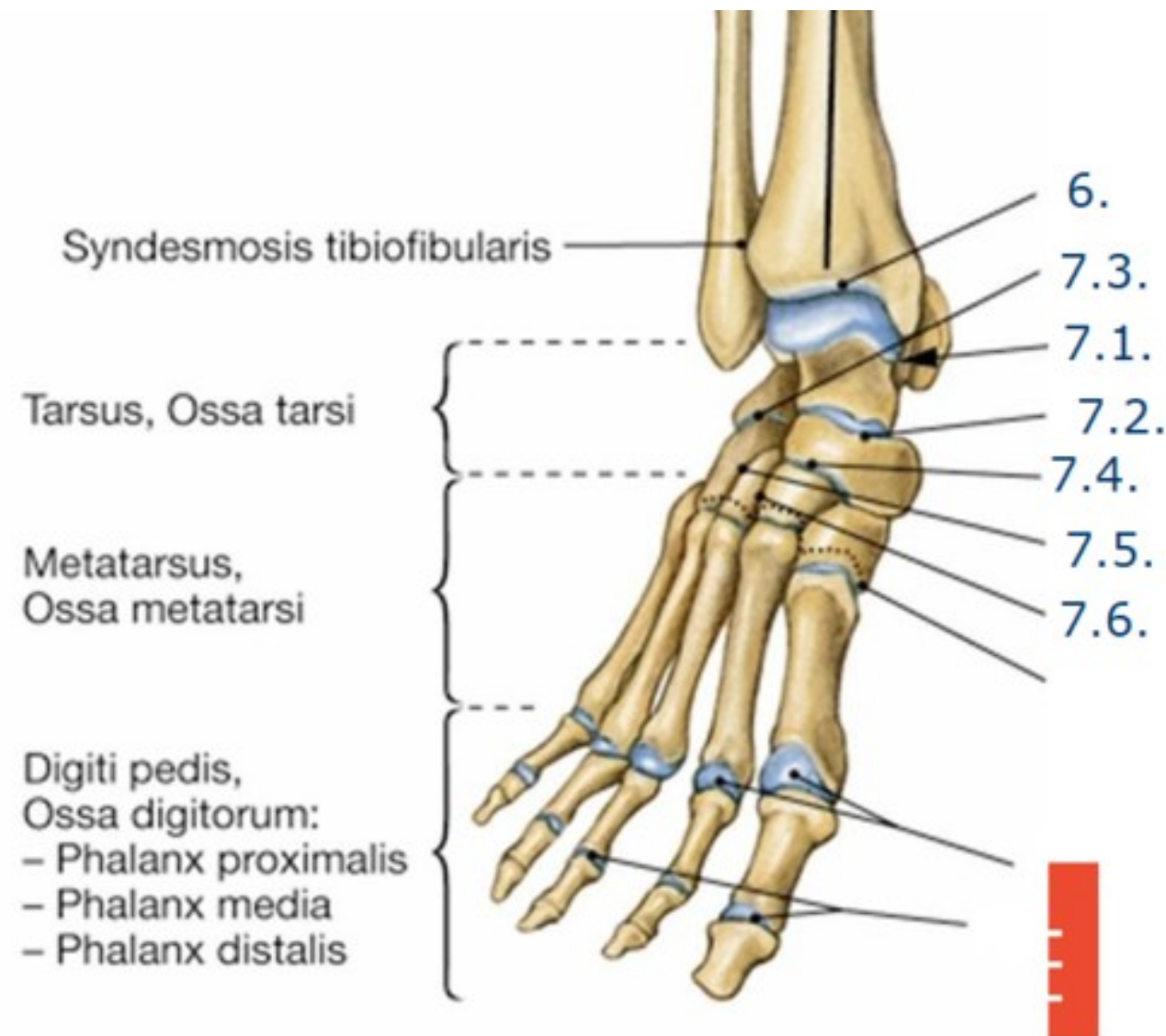
<https://www.dreamstime.com/arm-hand-bone-vector-illustration-arm-hand-bone-image178009684>

Kolenní kloub

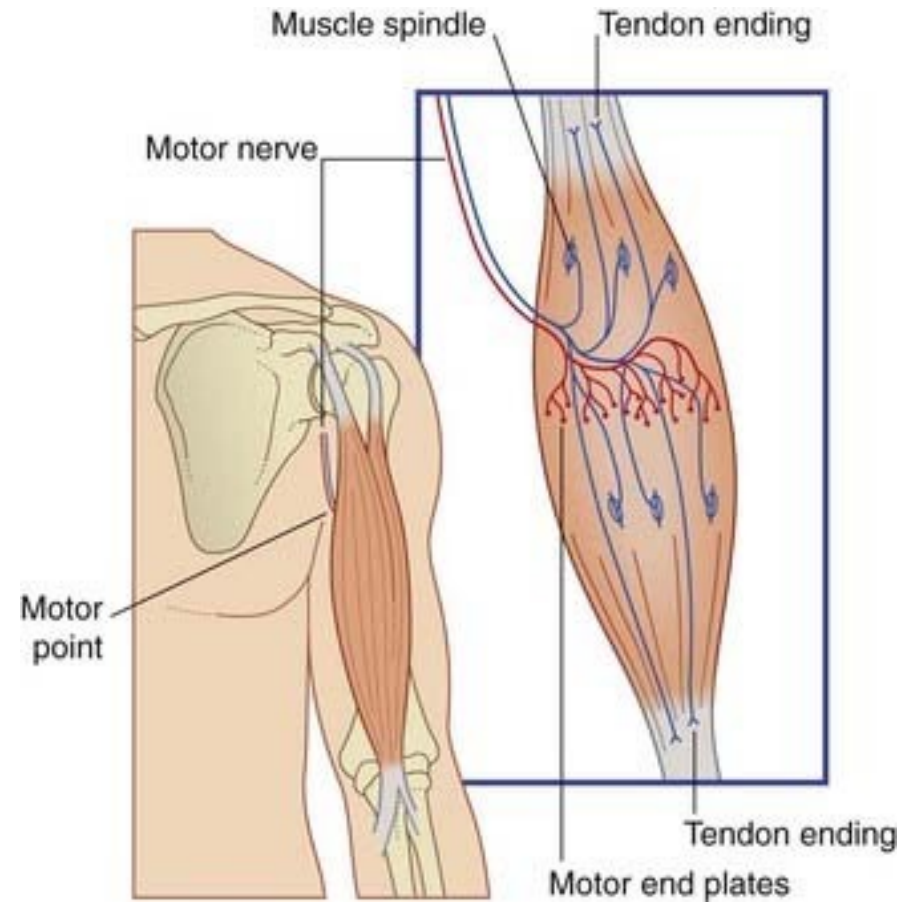
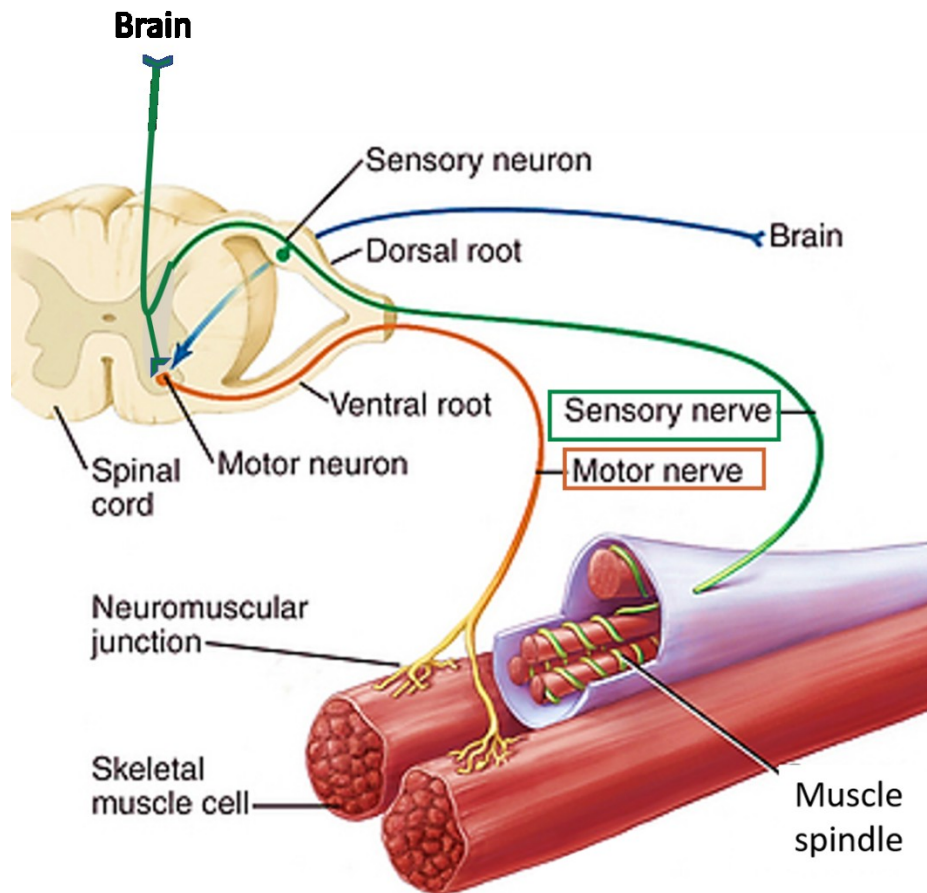
- <https://www.youtube.com/watch?v=q-Jxj5sT0g>



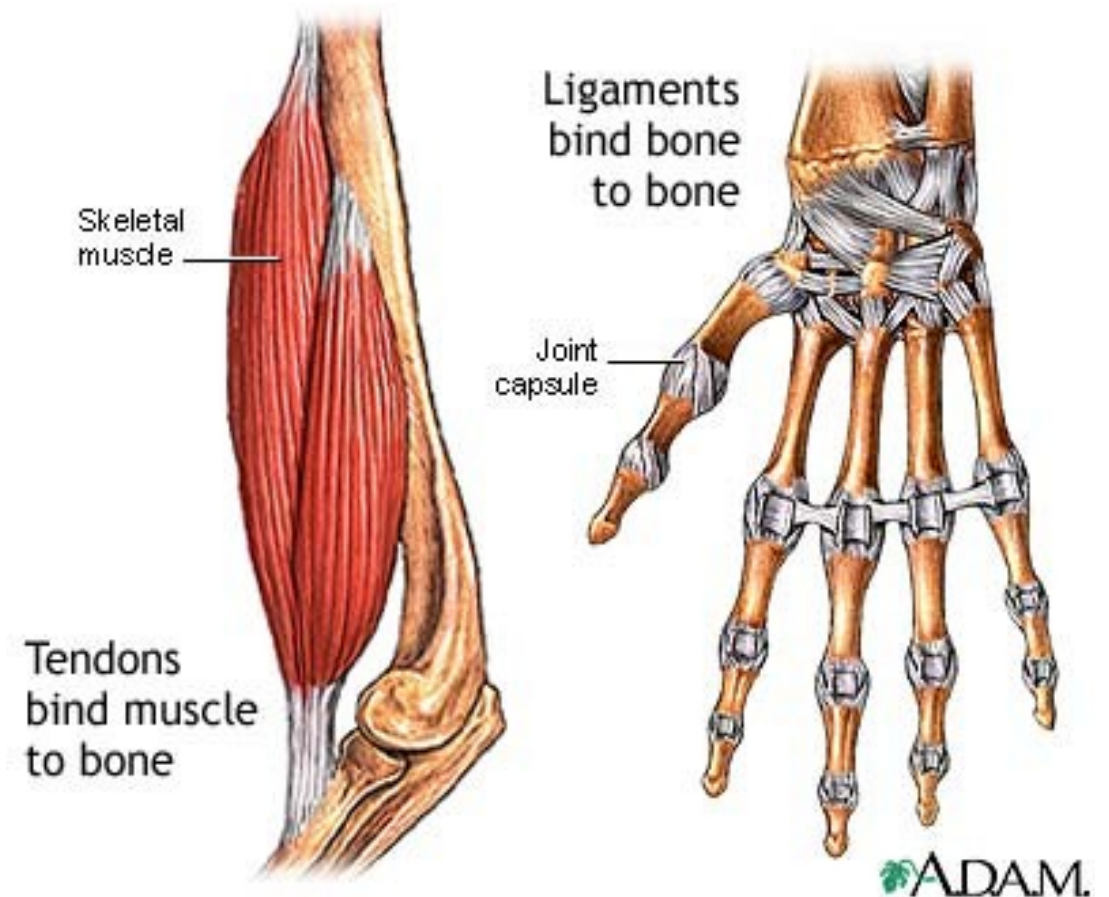
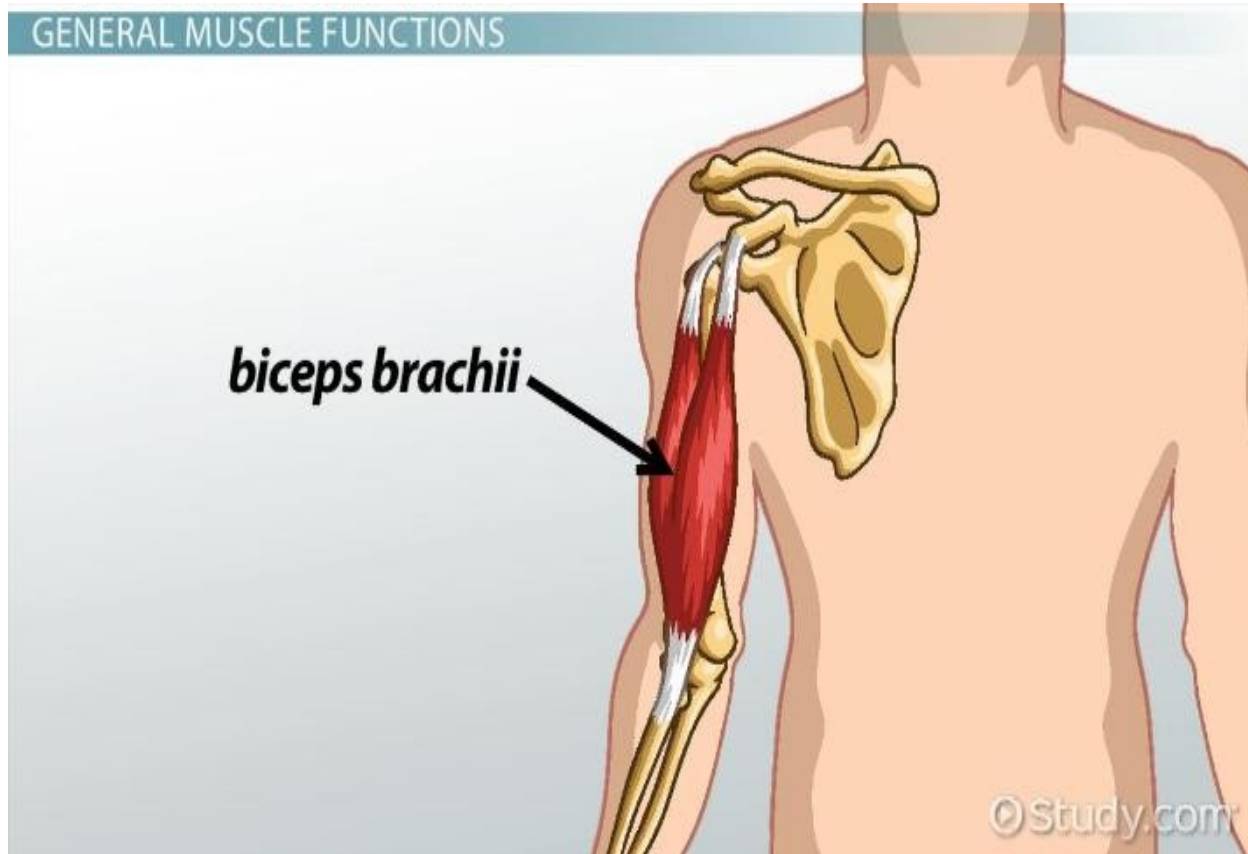
Kloub hlezenní articulatio talocruralis



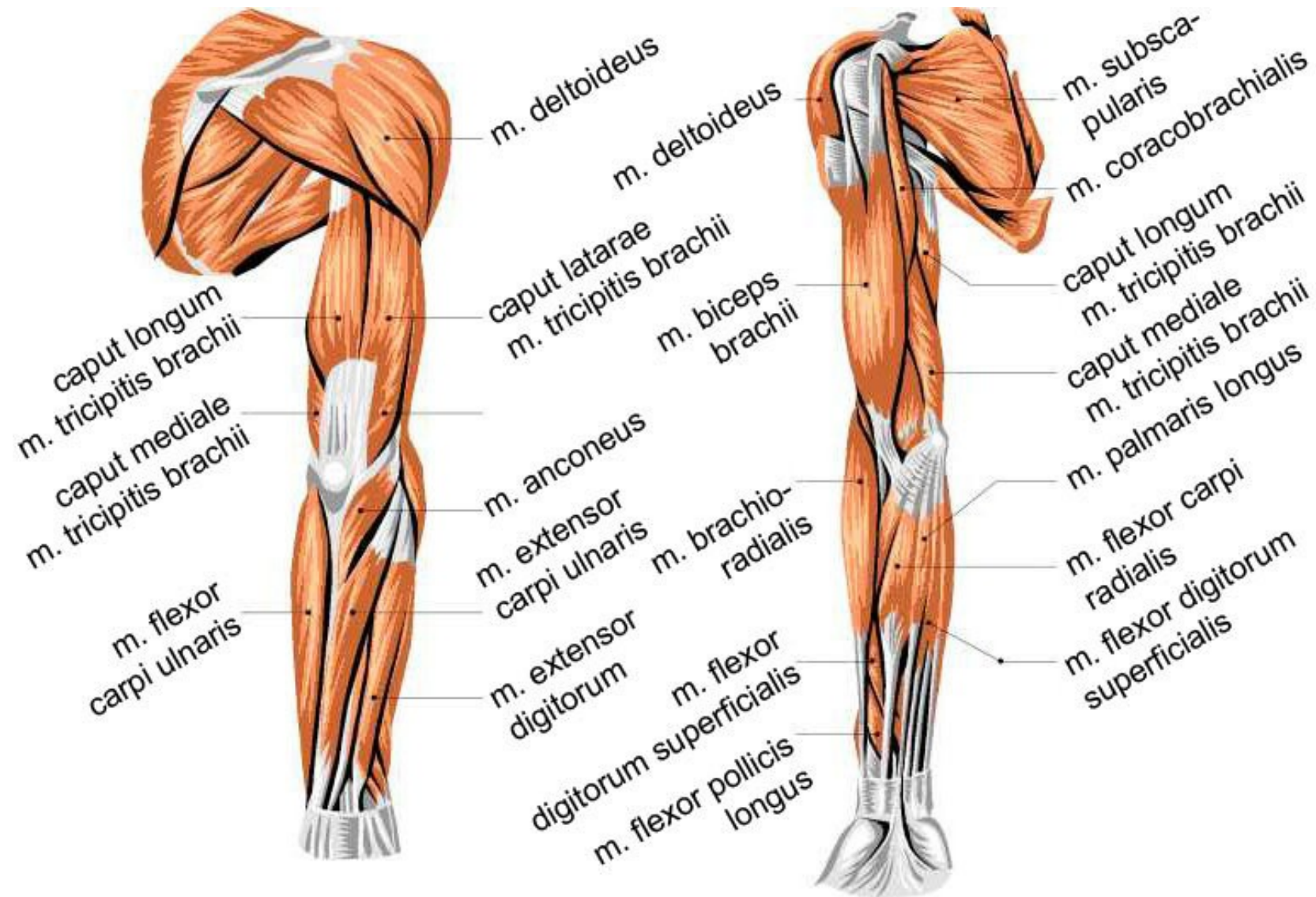
Inervace svalů



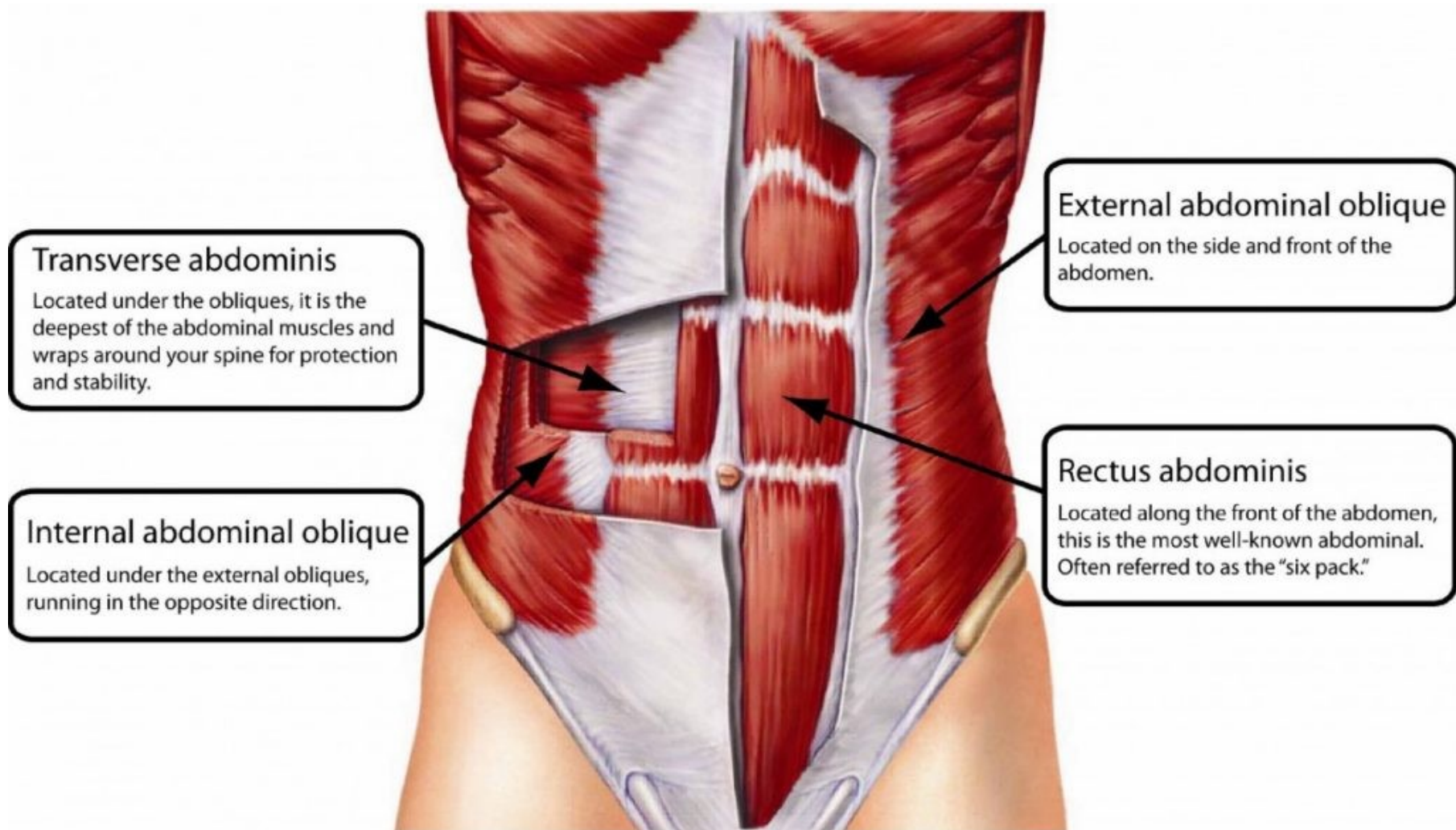
Šlachy - tendinum, vazy - ligamenta



Svaly horní končetiny

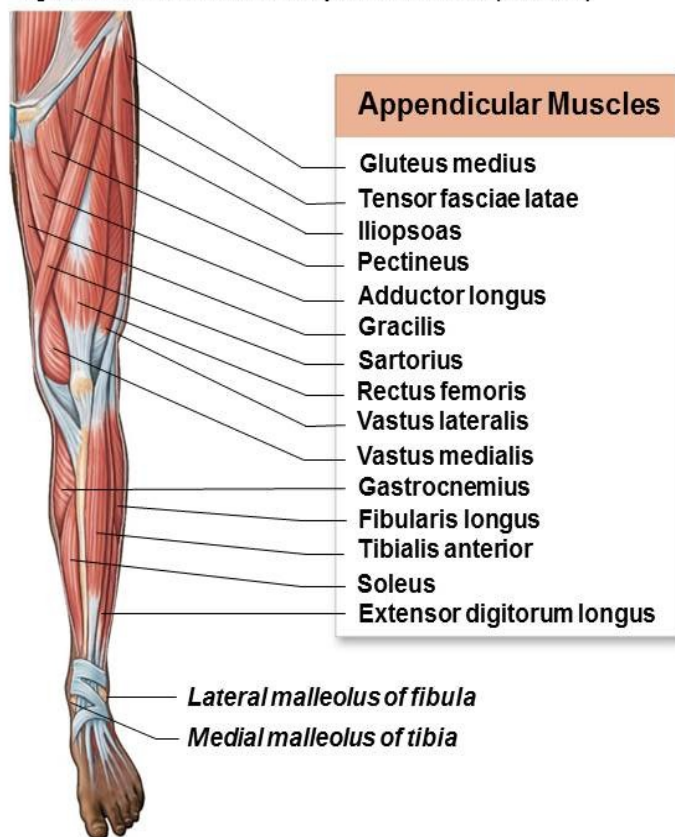


Svaly břicha



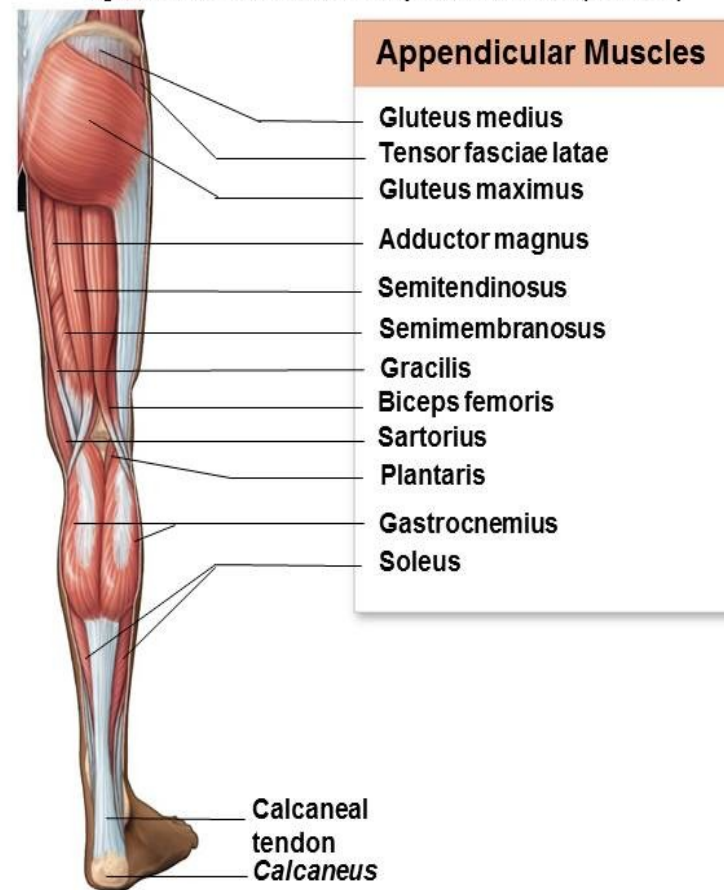
Svaly dolní končetiny

Figure 11-3a An Overview of the Major Skeletal Muscles (Part 6 of 6)



a An anterior view.
ATLAS: Plates 1a; 39a–d

Figure 11-3b An Overview of the Major Skeletal Muscles (Part 5 of 6)



b A posterior view
ATLAS: Plates 1b; 40a,b

Krev – tekutá tkáň

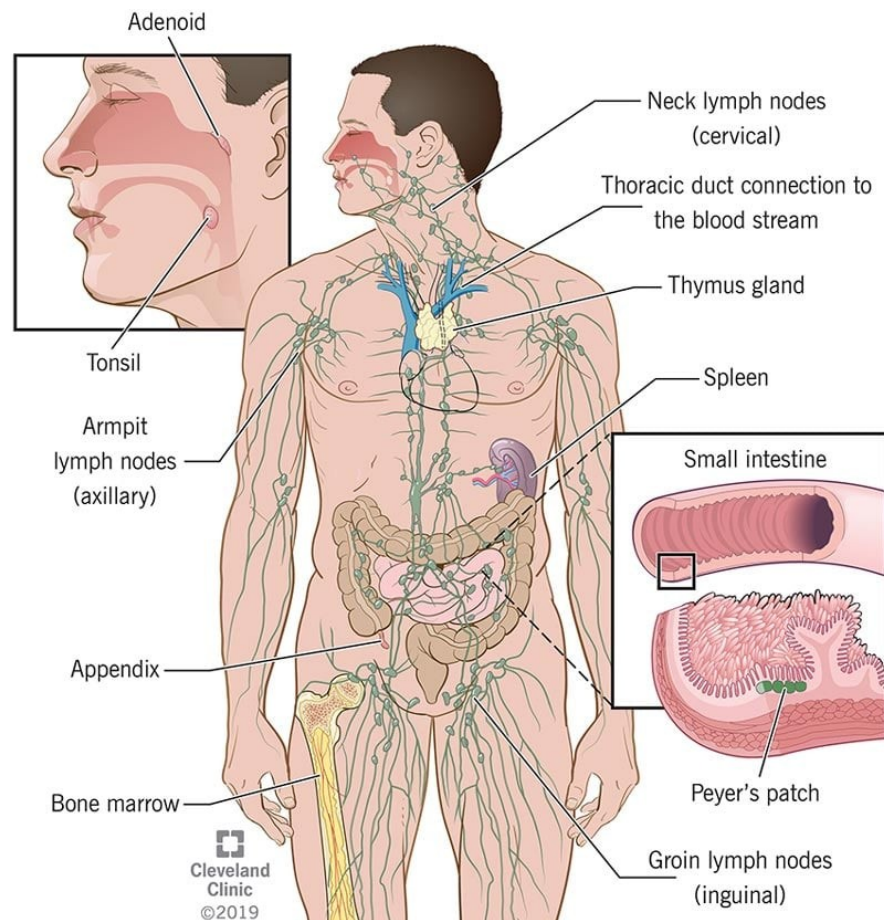
<https://www.youtube.com/watch?v=PK5YbDZODYk>

Hematopoeza

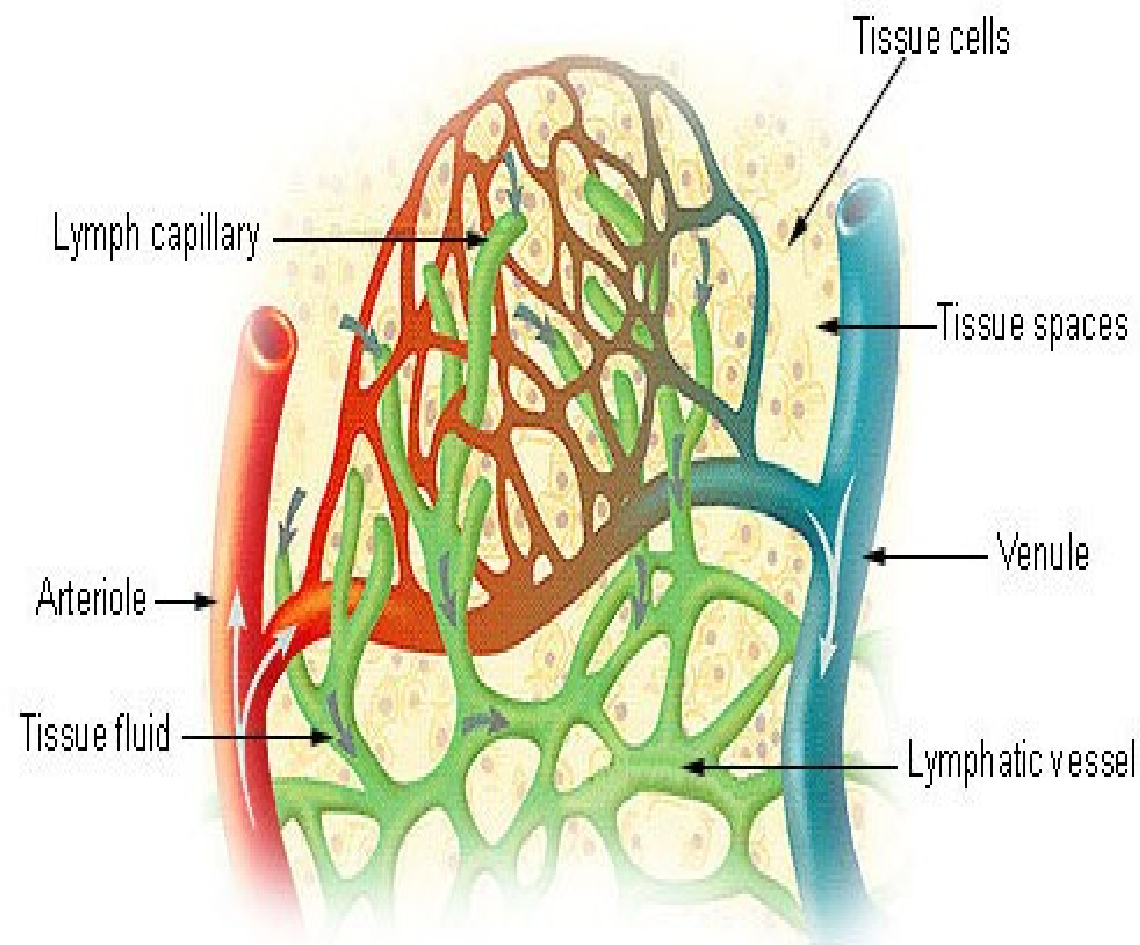
- <https://www.youtube.com/watch?v=0deCbmh7PHs>
- <https://www.youtube.com/watch?v=IXfEK8G8CUI>

- Přenos kyslíku Ery
- <https://www.youtube.com/watch?v=xEHGIRpGyh4>
- Srážení krve
- <https://www.youtube.com/watch?v=PK5YbDZODYk>
- <https://www.youtube.com/watch?v=DKFSH5MMPLM>
- <https://www.youtube.com/watch?v=R8JMfbYW2p4>
- https://www.youtube.com/watch?v=cy3a_OOa2M
- <https://www.youtube.com/watch?v=x8TLTTyyPfl>
- https://www.wikiskripta.eu/w/Von_Willebrand%C5%AFv_faktor

Lymfatický systém



Lymph Capillaries in the Tissue Spaces

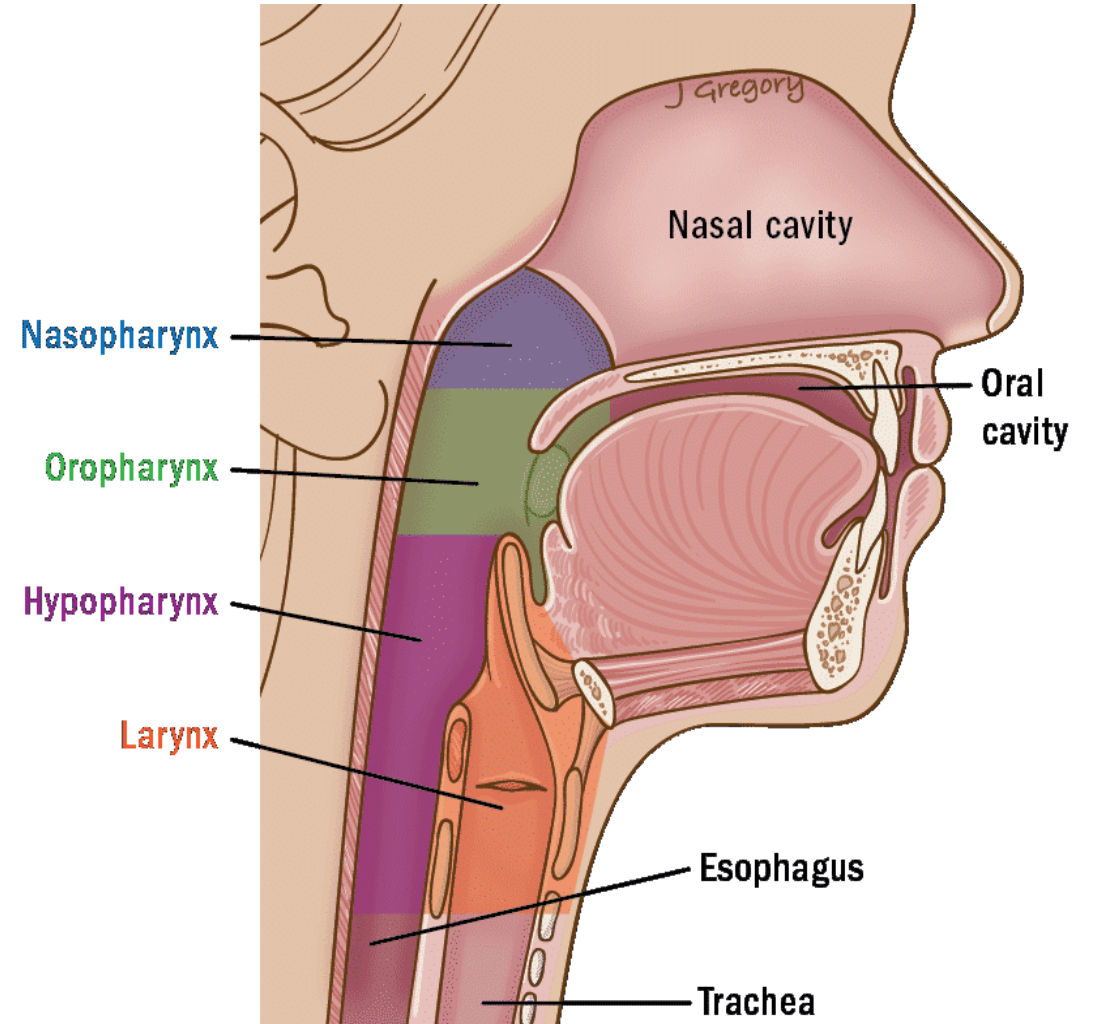
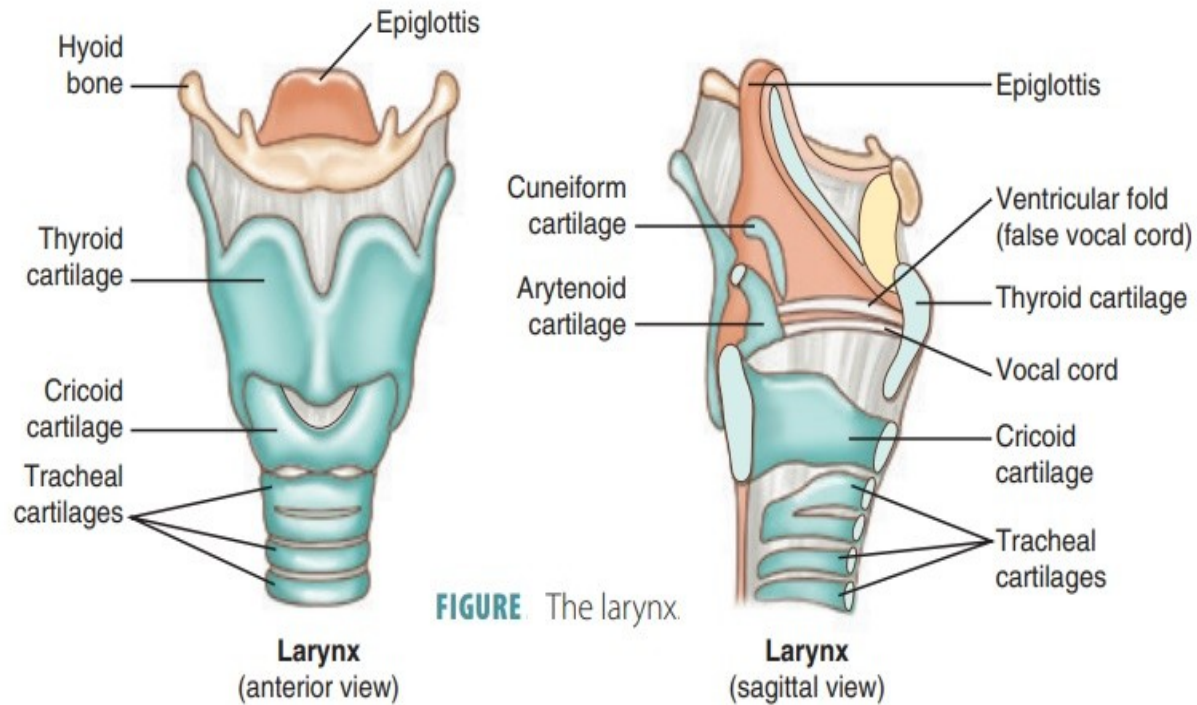


Lymfatický systém

- <https://www.youtube.com/watch?v=cCPyWFK0IKs>
- <https://www.youtube.com/watch?v=IxC-3MpIMUo>
- <https://www.youtube.com/watch?v=IXfEK8G8CUI>

Hrtan, lat. Larynx

<https://youtu.be/b89RSYCaUBo>

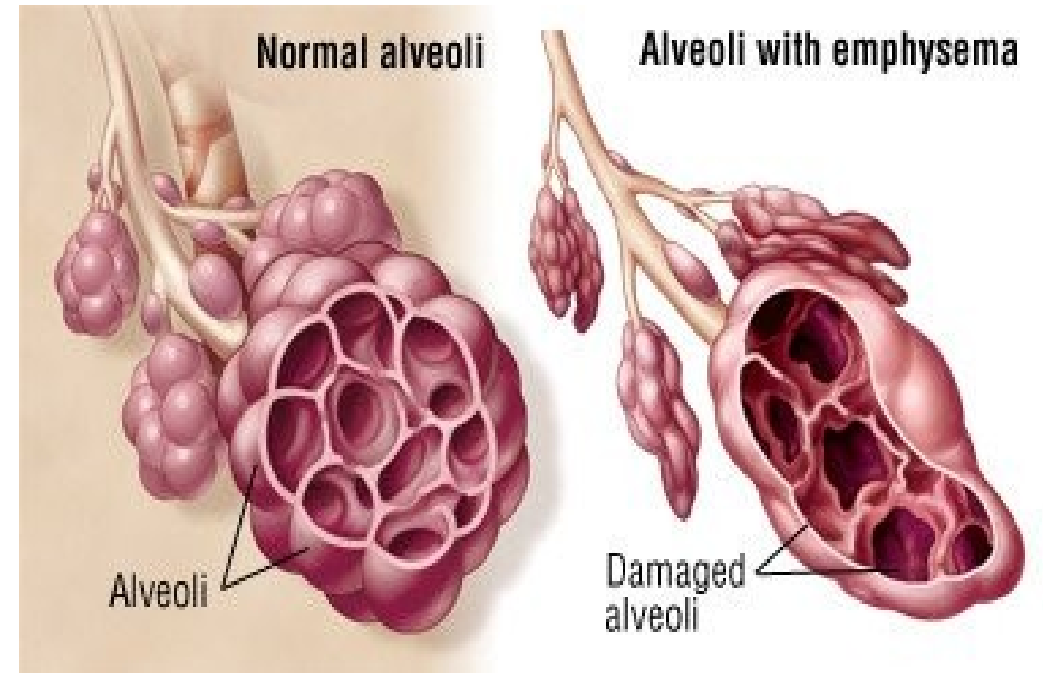


<https://healthjade.com/what-is-the-larynx/>

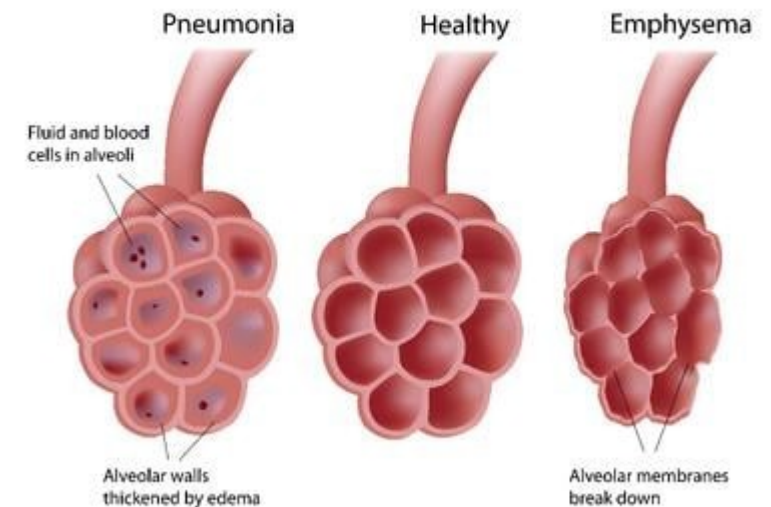
<https://www.pharmacy180.com/article/larynx-3656/>

Respirační systém

- <https://www.youtube.com/watch?v=B75kBvjJink>
- Emfysém
- Spirometrie
- <https://youtu.be/hQzNG89pESQ>
- https://www.google.com/search?q=emphysema&tbm=isch&source=lnms&sa=X&ved=2ahUKEwiw94Kk79v7AhV1SfEDHTIVAxYQ_AUoAXoECAoQAw&biw=1003&bih=497&dpr=1.5#imgrc=ex-siDfAWuS7sM&imgdii=hXLB_vm-q3gXSM



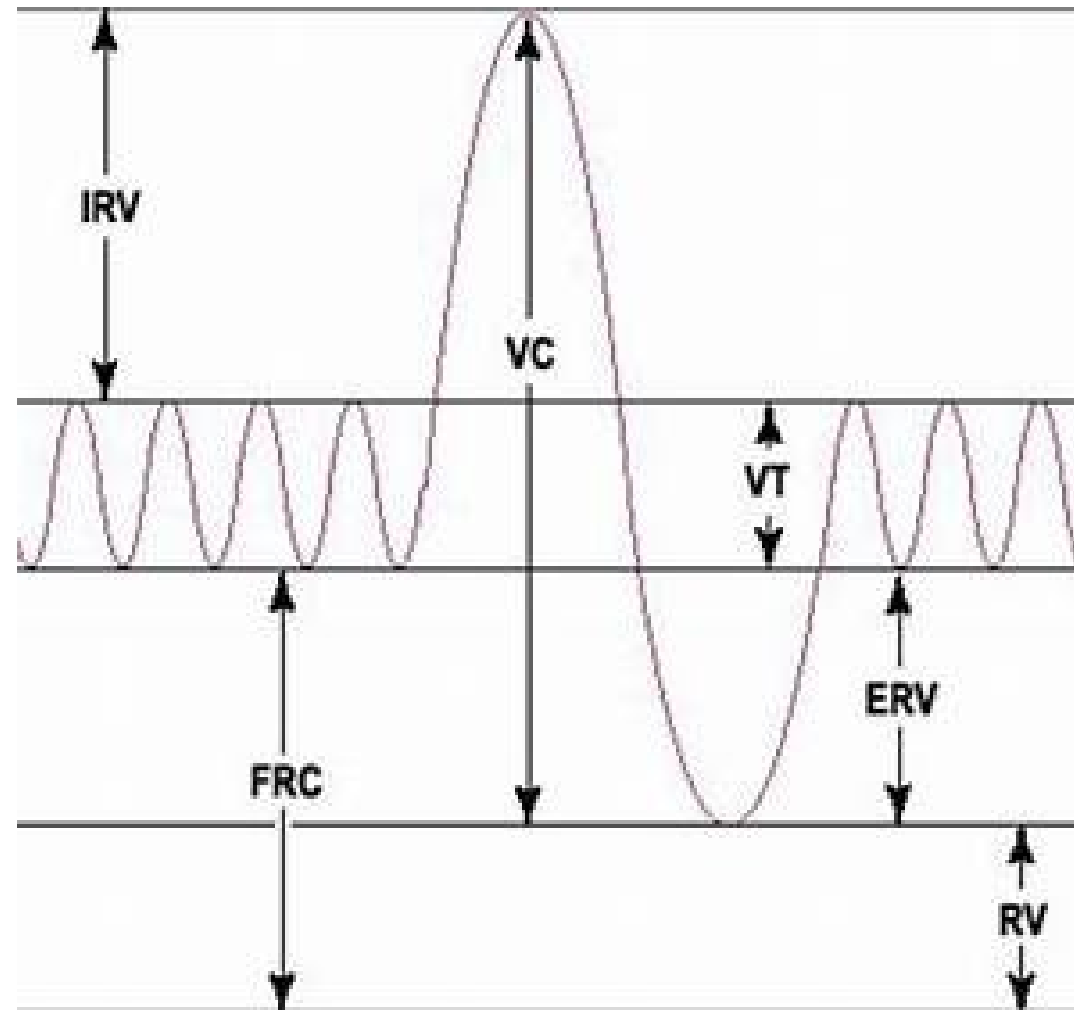
Alveoli Changes in Lung Diseases



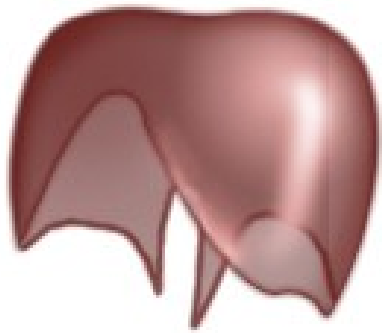
Pneumonie

- <https://lungfoundation.com.au/patients-carers/living-with-a-lung-disease/other-lung-conditions/pneumonia/>
- <https://youtu.be/3hTsve9jjsQ>

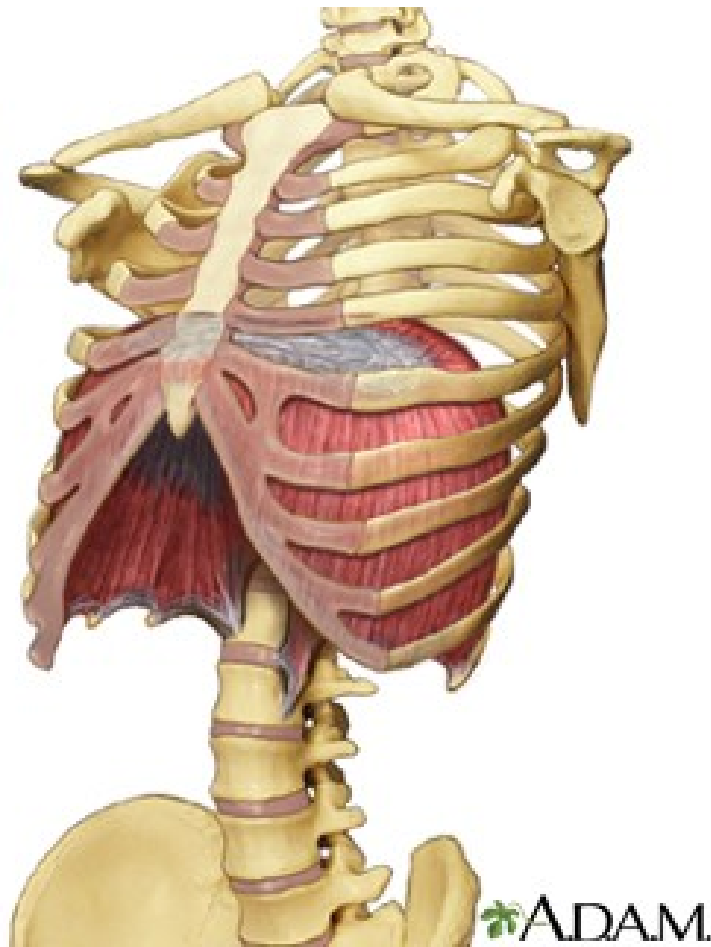
Spirometrie



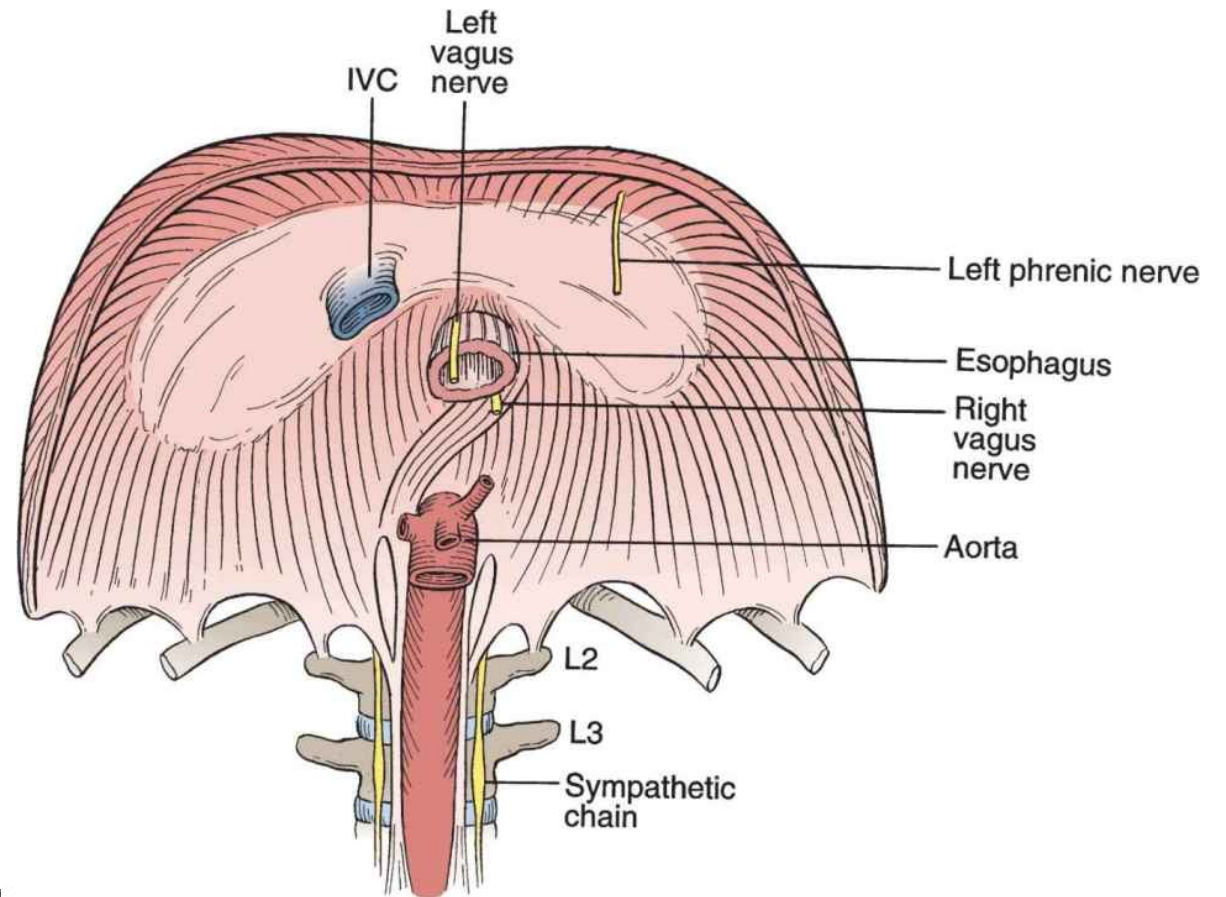
Bránice, *lat. diaphragma*



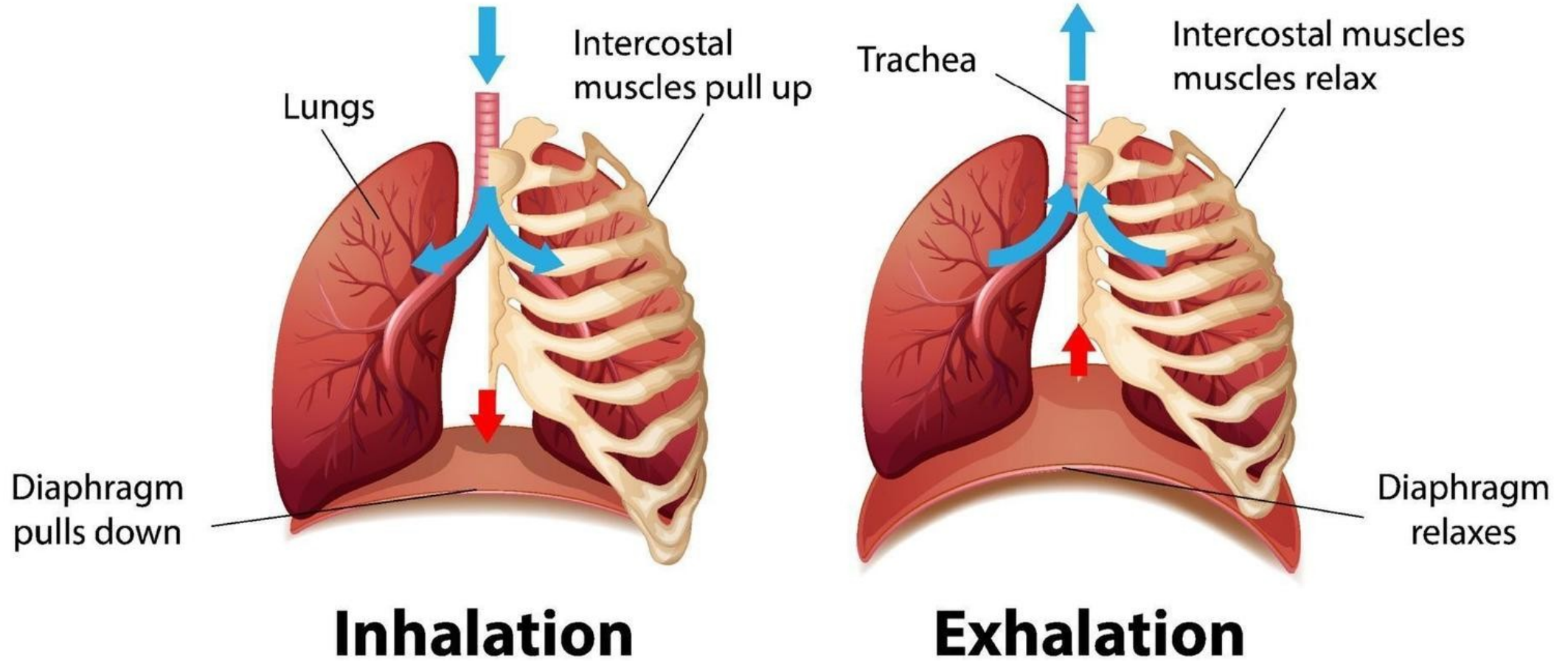
The diaphragm is shaped like a parachute



ADAM.



THE DIAPHRAGM FUNCTIONS IN BREATHING



Srdce, oběh

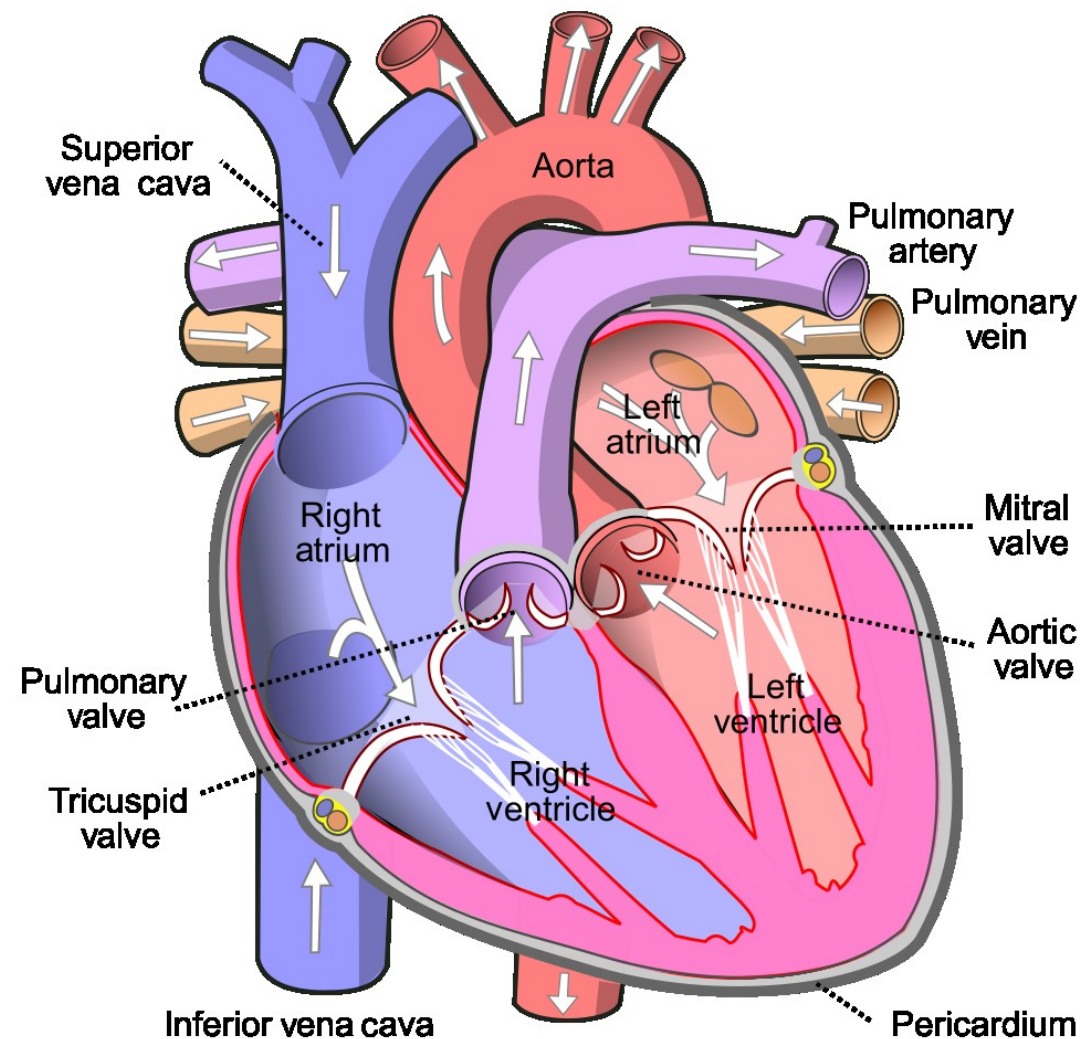
- <https://www.youtube.com/watch?v=GMBSU-2GK3E>
- <https://www.youtube.com/watch?v=46u2ON6d4m8g>
- <https://www.youtube.com/watch?v=CWFyxn0qDEU>
- https://youtu.be/_qmNCJxpsr0

Koronární artérie

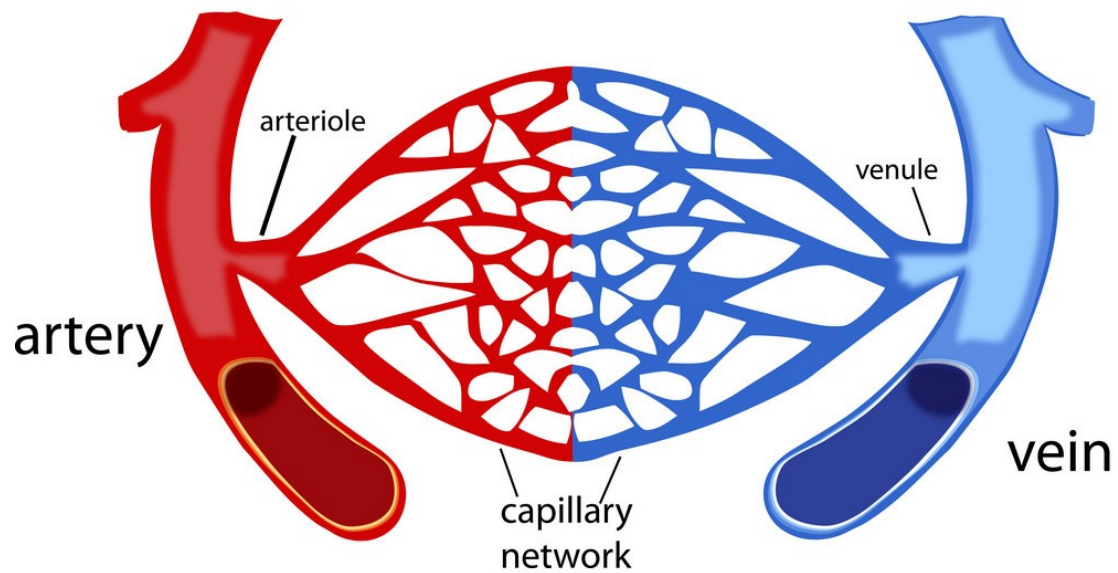
<https://www.youtube.com/watch?v=ggj4OWNkBbw>

IM

<https://www.youtube.com/watch?v=QllguanpKic>



Krevní oběh

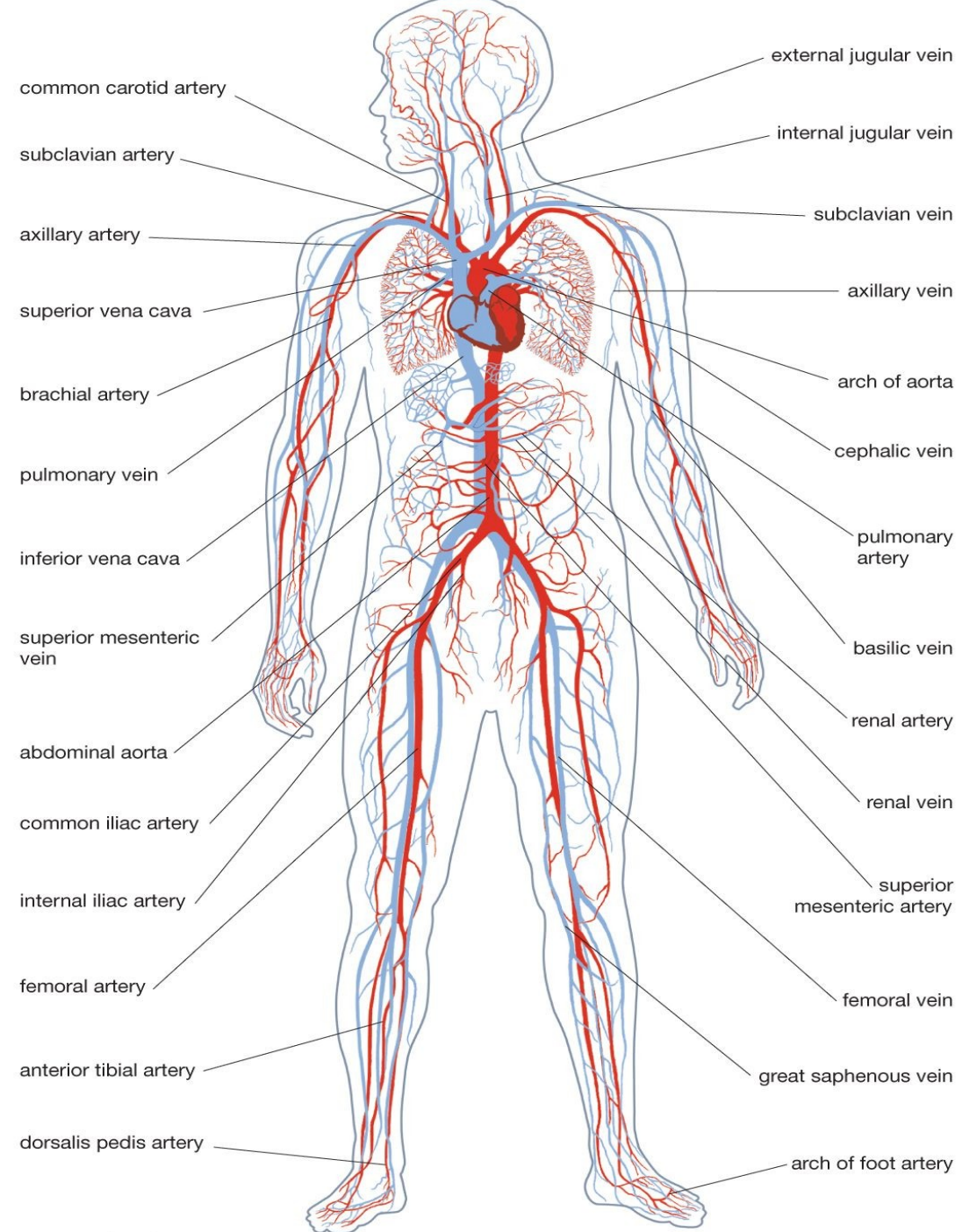


VectorStock®

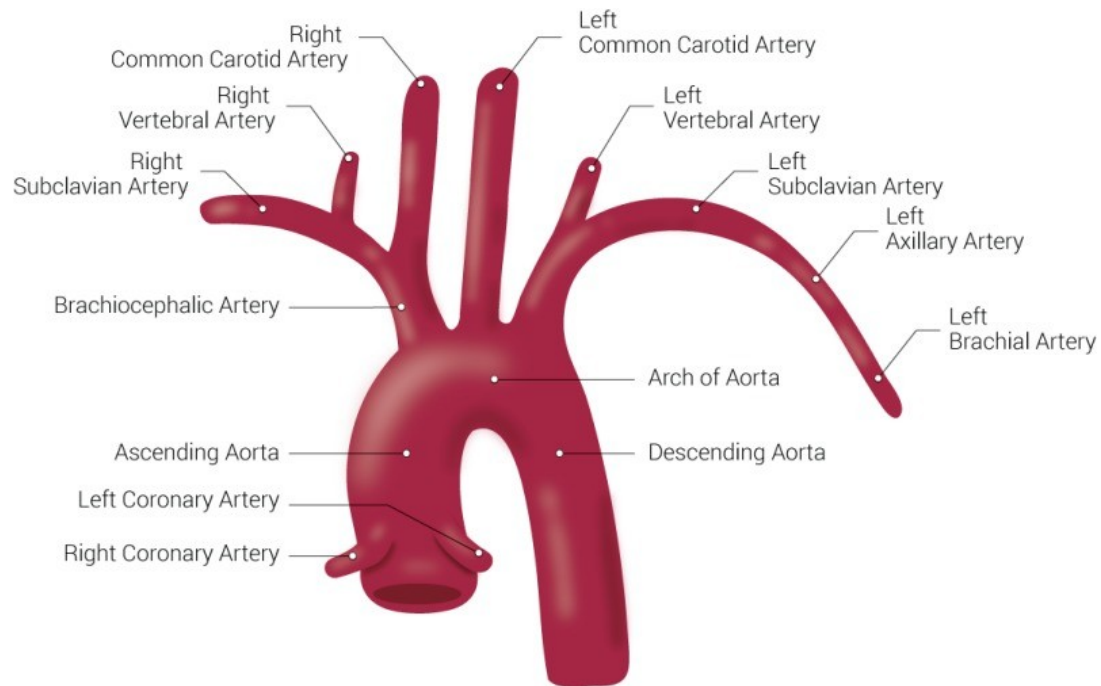
VectorStock.com/26868493

https://www.google.com/search?q=red+blood+cells+in+capilar+system&tbm=isch&ved=2ahUKEwi00tGT9cz7AhXUxwIHHZjuDLsQ2-cCegQIABAA&oq=red+blood+cells+in+capilar+system&gs_lcp=CgNpbWcQAzoECAAQHIDzGFjVRGDWSWgAcAB4AIABnAGIAdUOkGEEMTUuNZgBAKABAaoBC2d3cy13aXotaW1nwAEB&sclient=img&ei=z5WCY_SuOtSPi-gPmN2z2As&bih=609&biw=1280&rlz=1C1CHBF_enCZ924CZ924#imgrc=WX2cmWZbd_rVRM&imgdii=jlgVhH3P1WEwoM

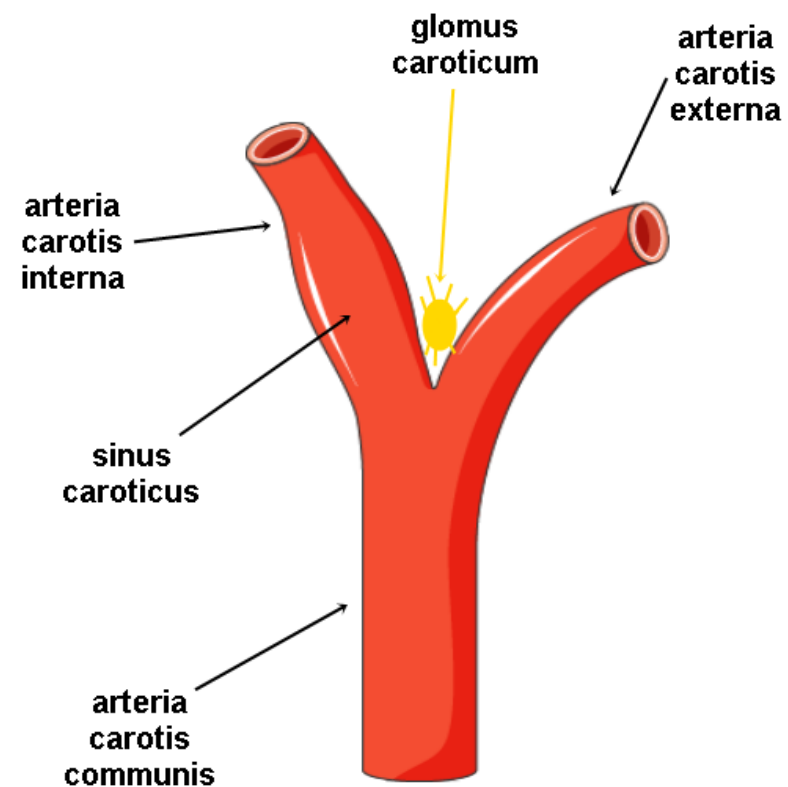
- <https://www.google.com/search?q=kardiovscular+system&tbm=isch&ved=2ahUKEwij6b-J8z7AhWMMyAIHHRToArEQ2-cCegQIABAA&oq=kardio>



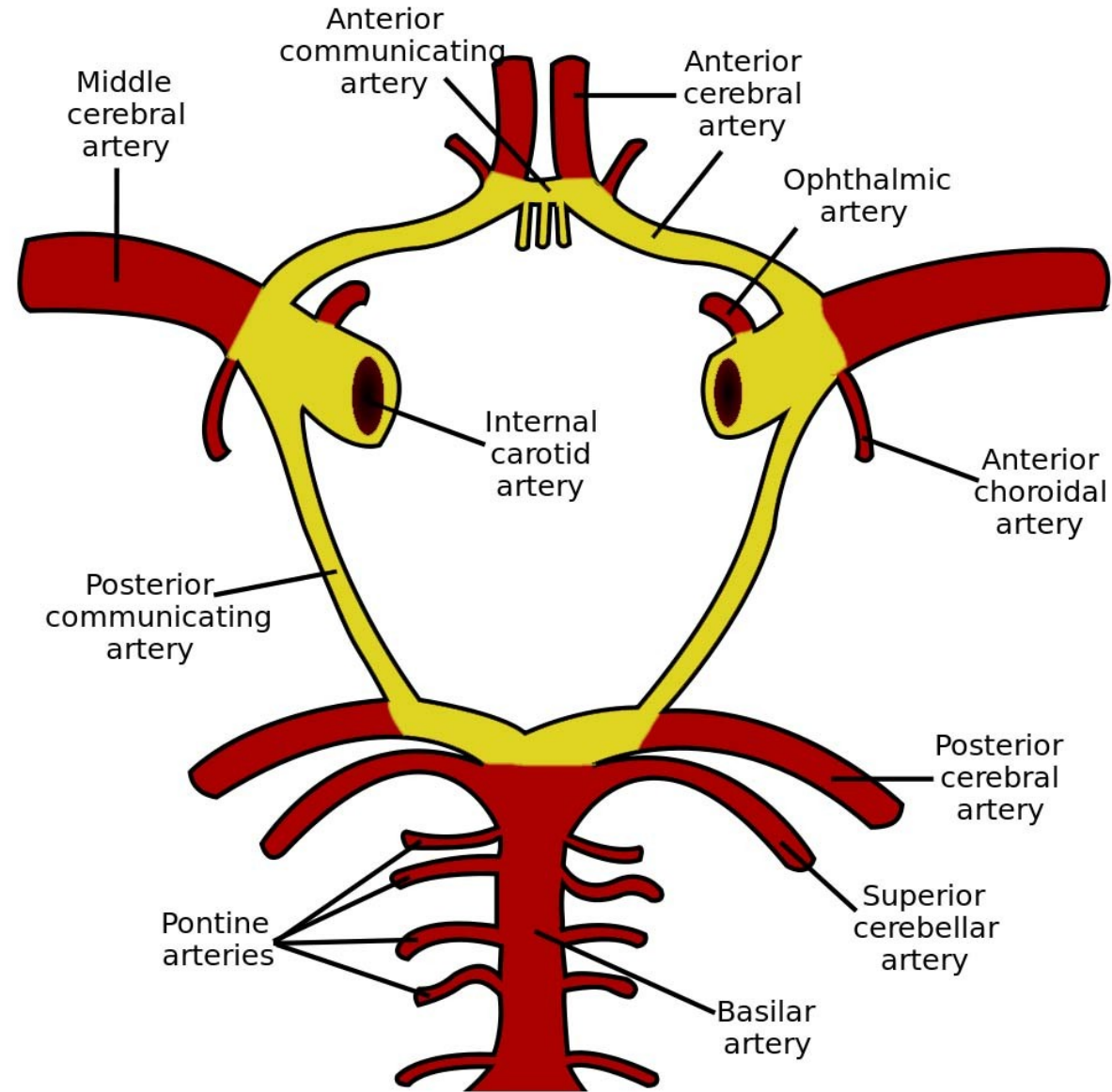
Oblouk aorty



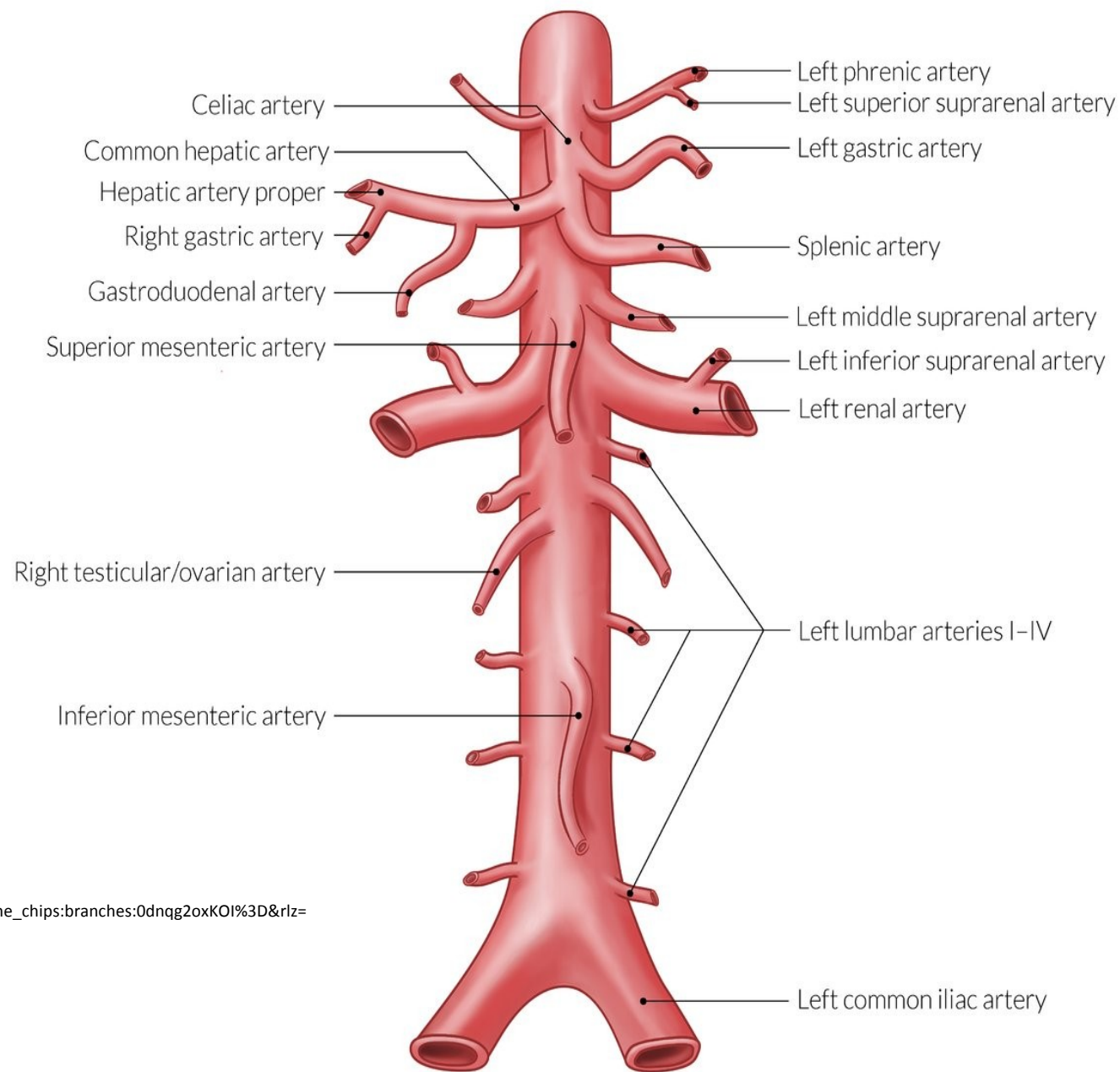
Odstupy aa. carotis



Wilisův okřih



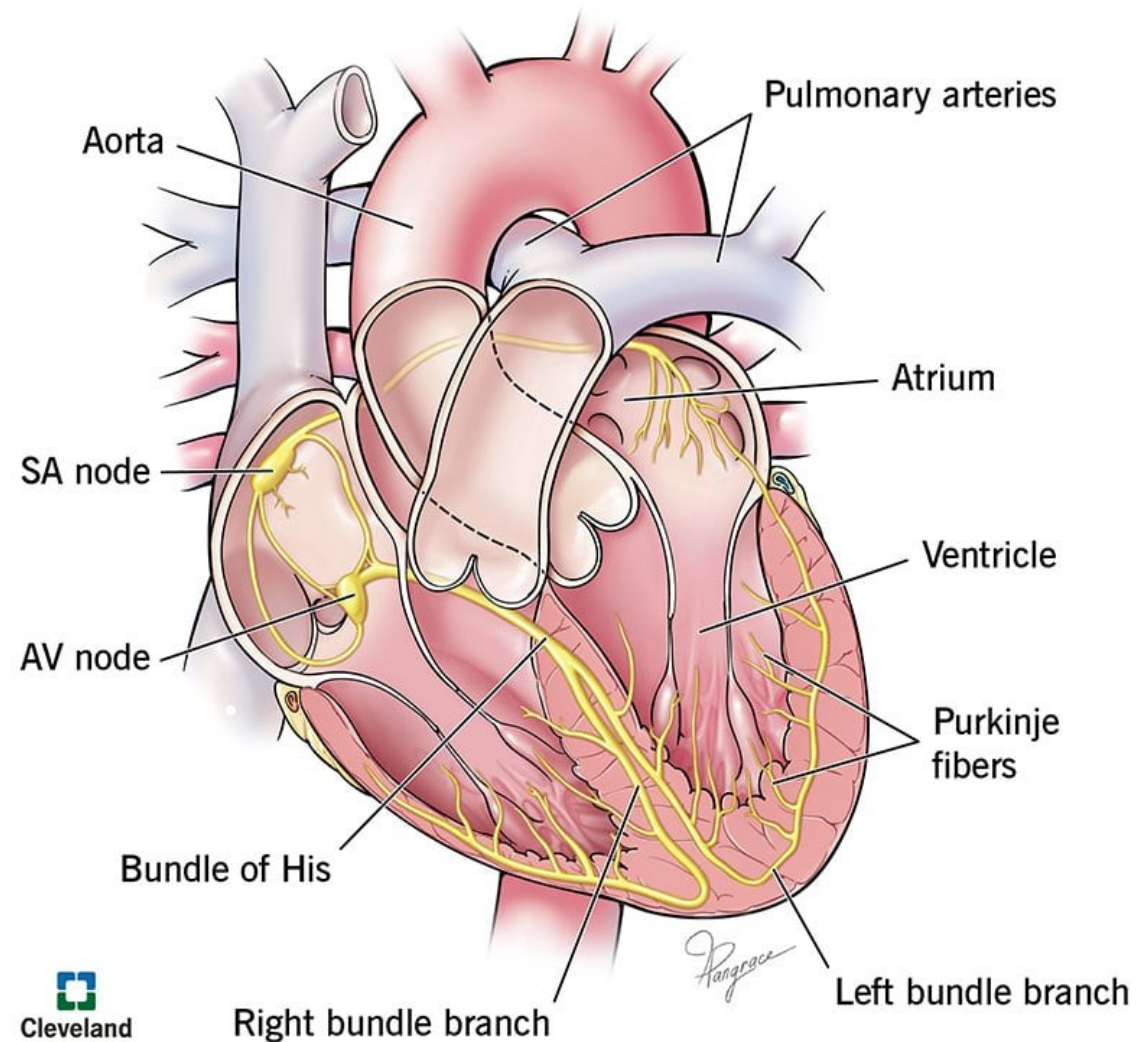
Odstupy břišní aor



https://www.google.com/search?q=abdomen+aorta&tbm=isch&hl=cs&chips=q:abdomen+aorta,online_chips:branches:0dnqg2oxKOI%3D&rlz=1C1CHBF_enCZ924CZ924&sa=X&ved=2ahUKewjGpL_R98z7AhWTxwIHHb-2D34Q4IYoAXoECAEQJA&biw=617&bih=243#imgrc=5Q991GRSN4nKAM

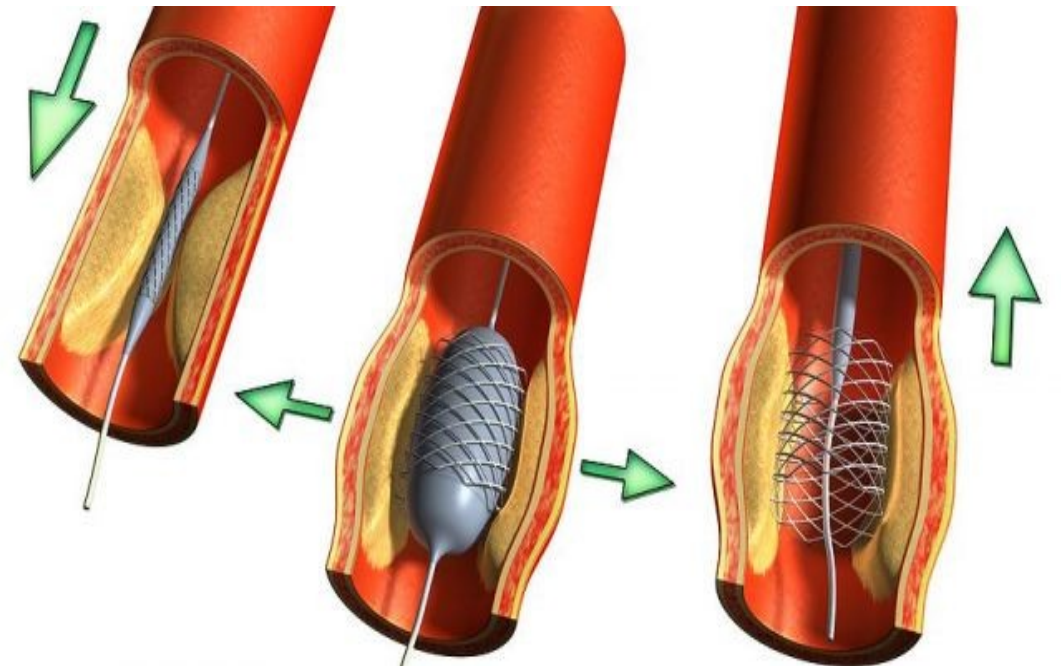
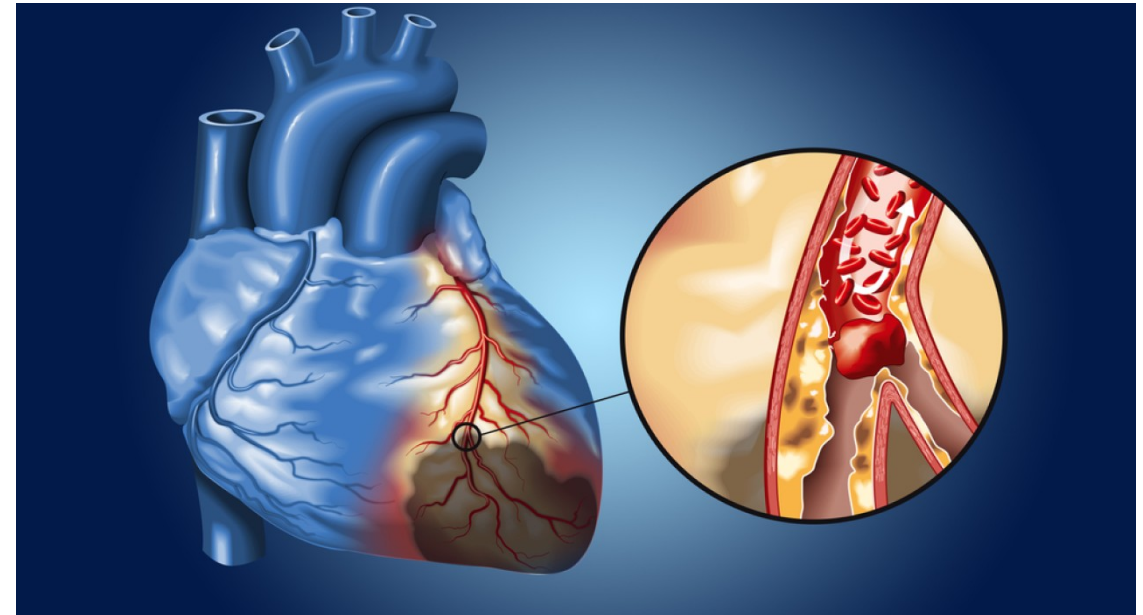
Převodní systém srdeční

- <https://www.youtube.com/watch?v=RYZ4daFwMa8>



Infarkt

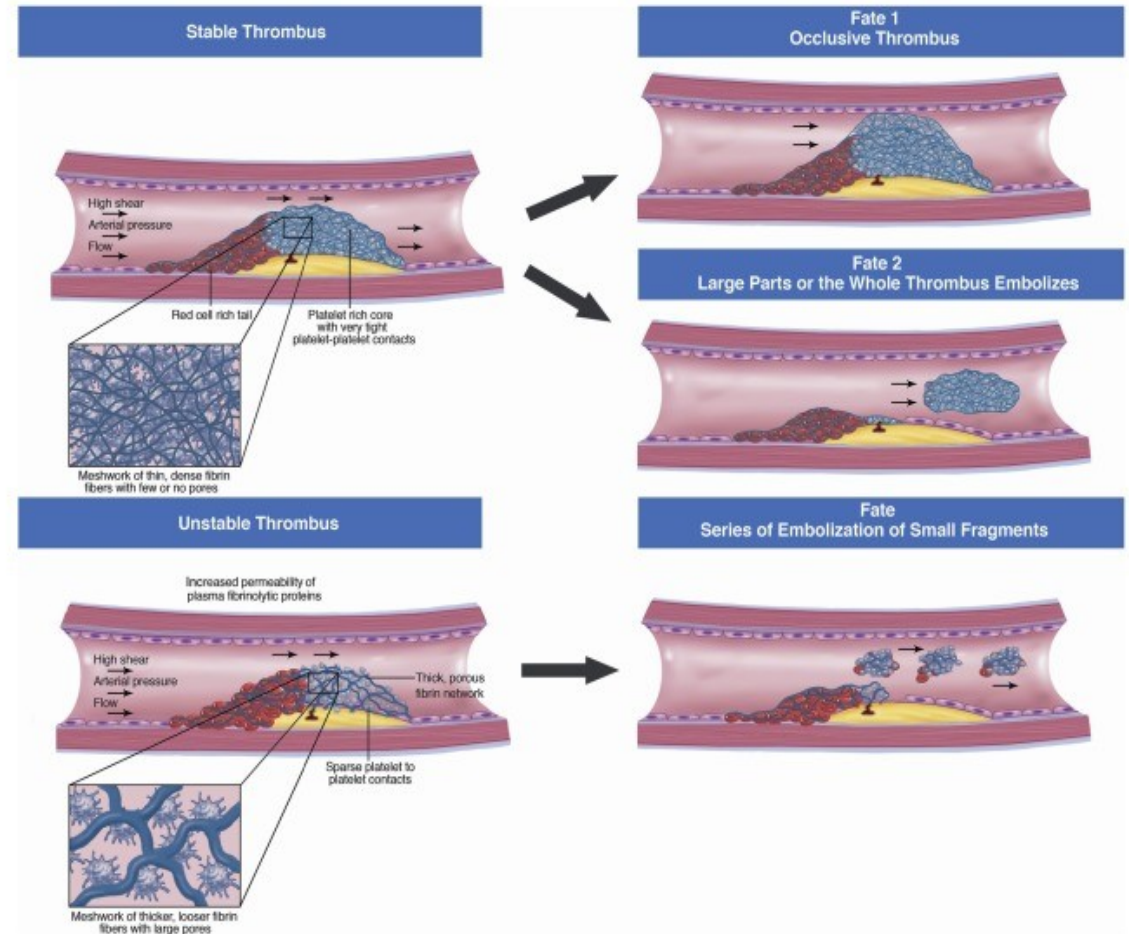
- <https://www.youtube.com/watch?v=QllguanpKic>
- Angioplastika
- <https://www.youtube.com/watch?v=p3z9FLYijrQ>



Srážení krve

- <https://www.youtube.com/watch?v=DKFSH5MMPLM>

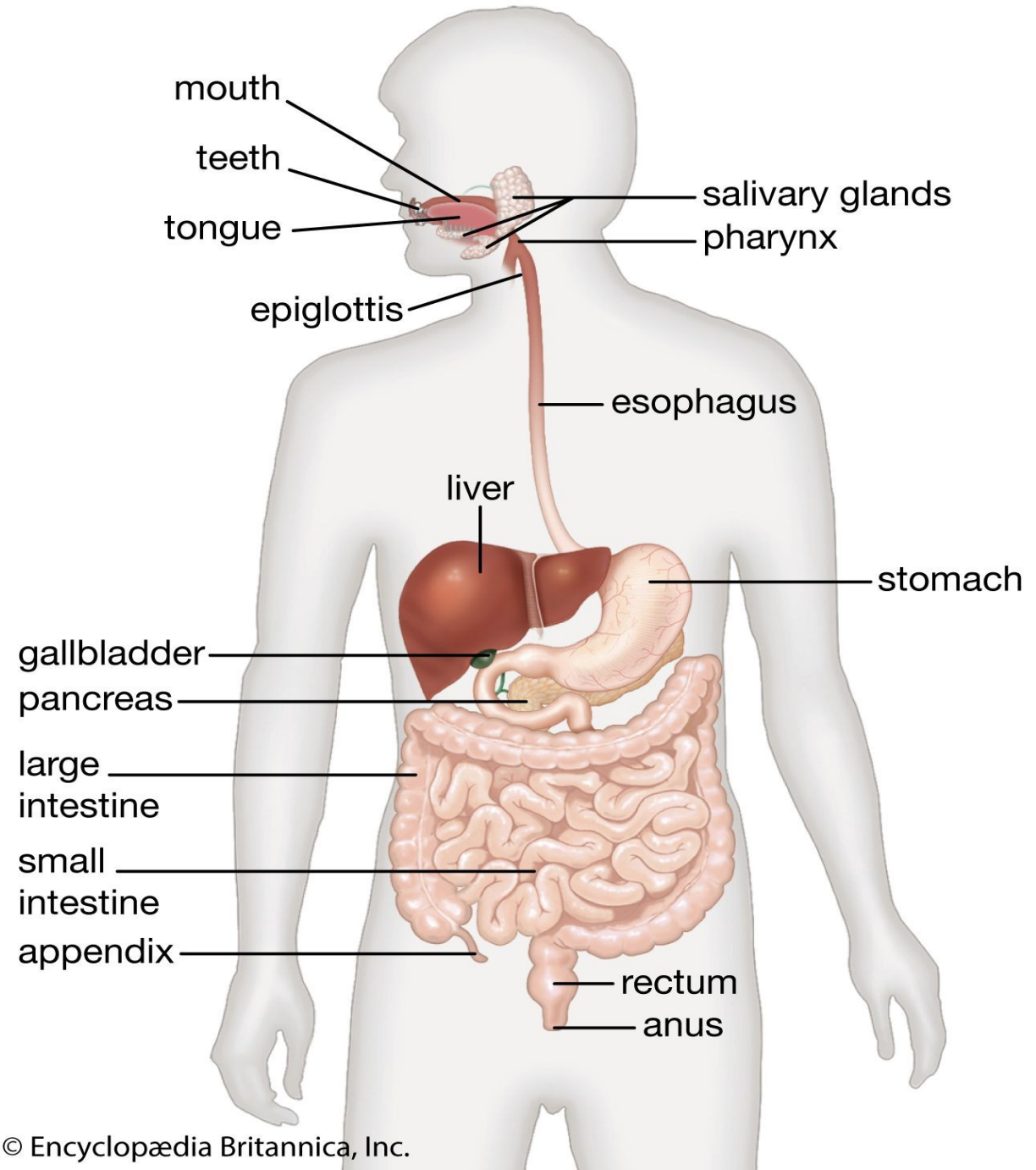
CENTRAL ILLUSTRATION: Potential Fate of a Growing Arterial Thrombus, Depending on Thrombus Stability



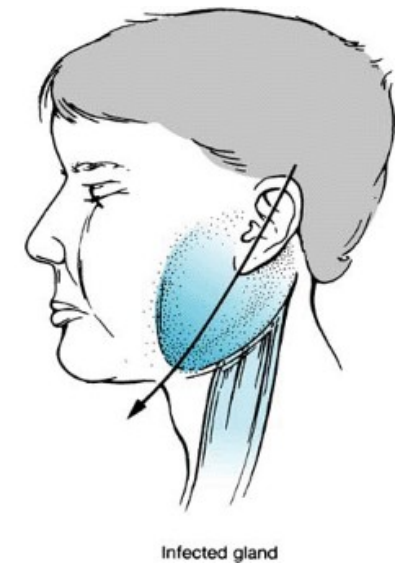
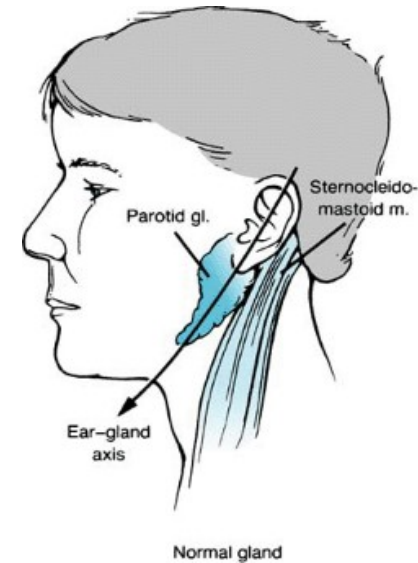
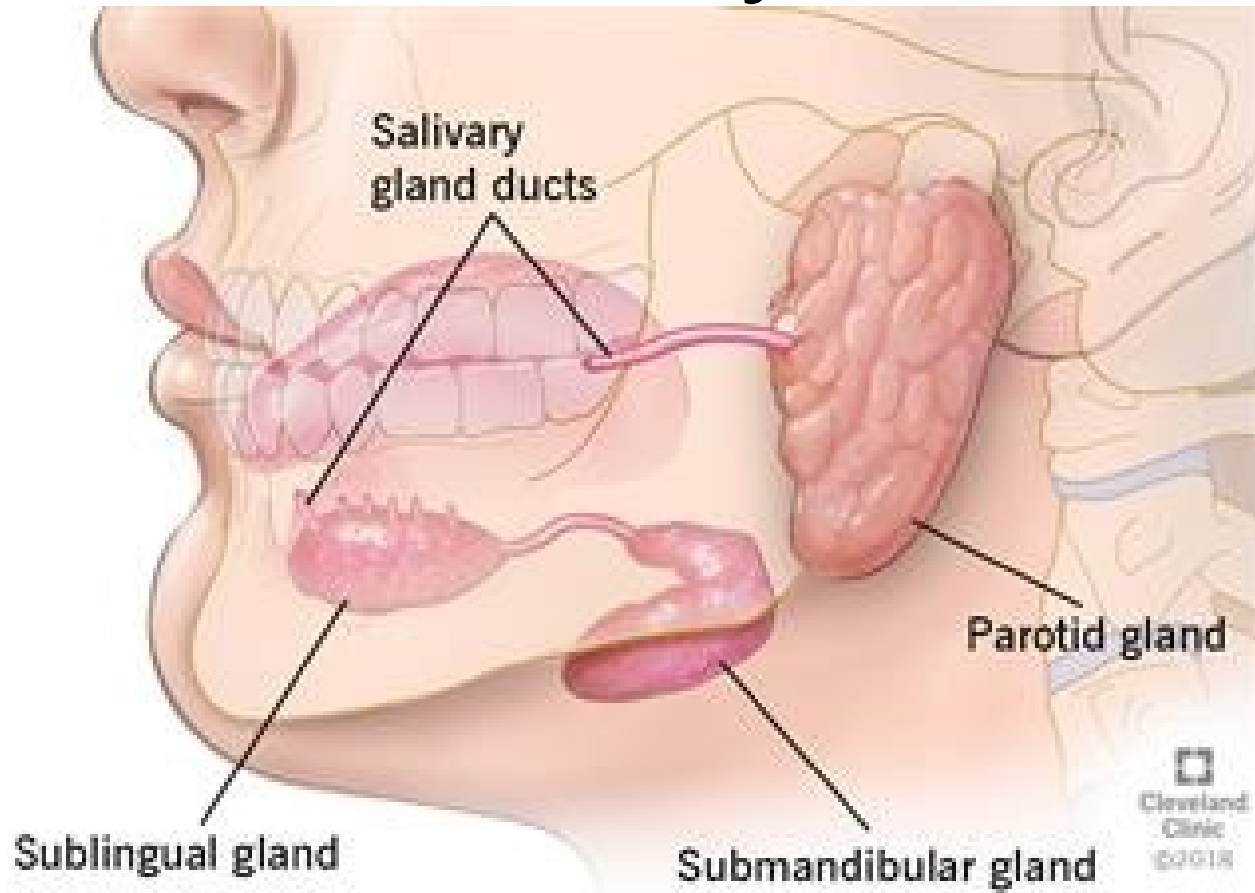
Gorog, D.A. et al. J Am Coll Cardiol. 2017;70(16):2036-47.

Trávicí systém

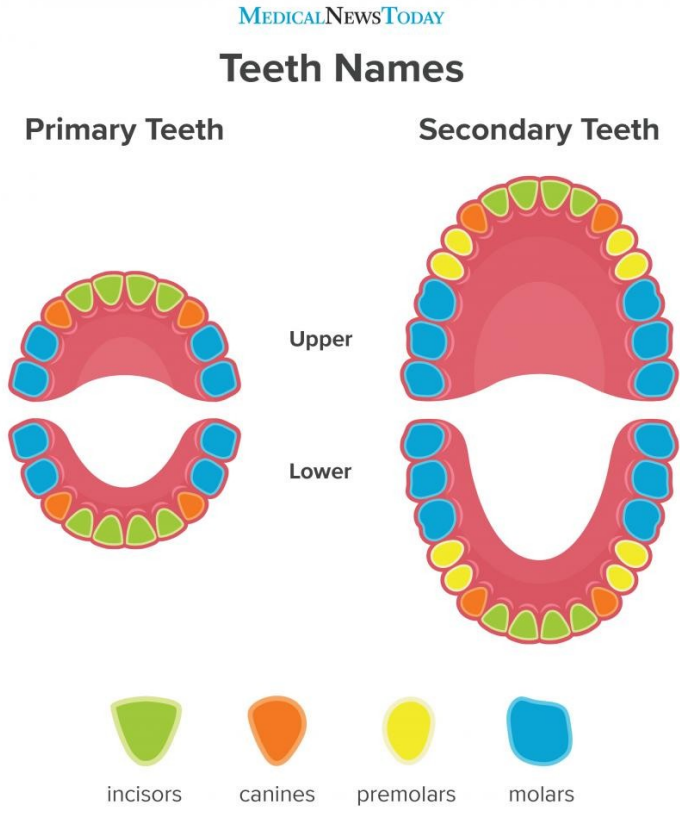
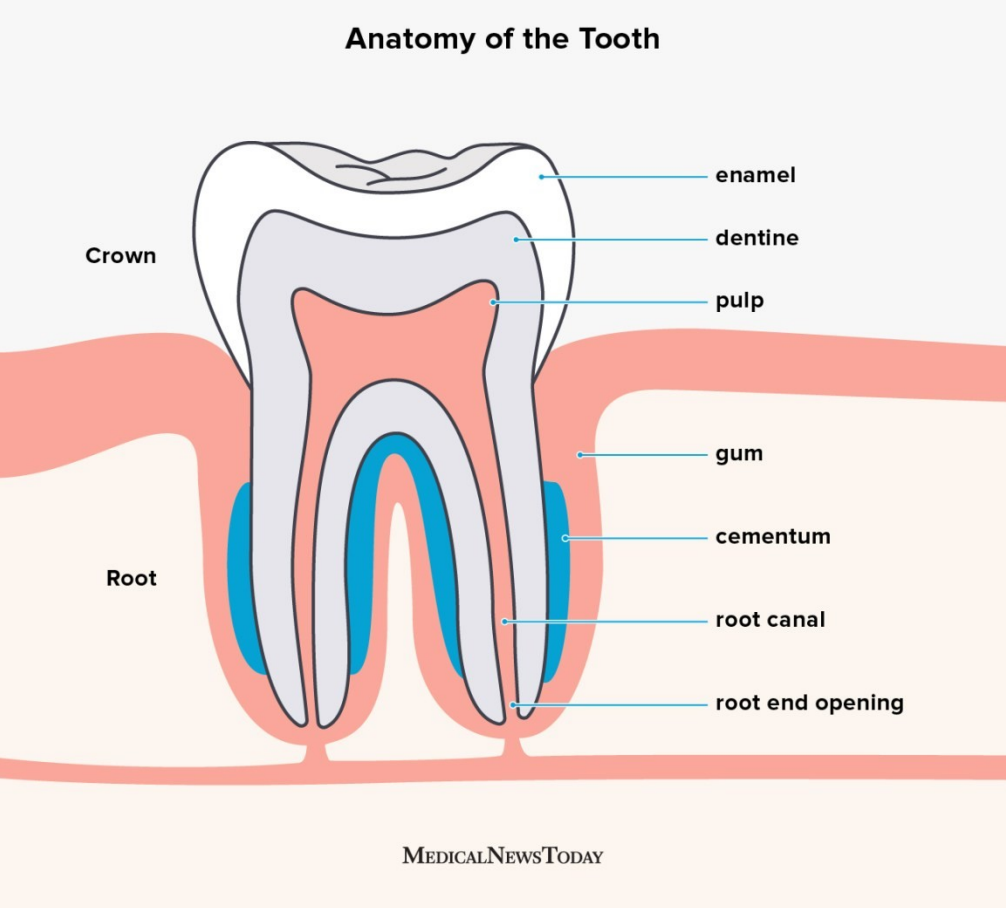
- <https://www.youtube.com/watch?v=X3TAR0otFfM>



Slinné žlázy



Zuby, denty



Žaludek

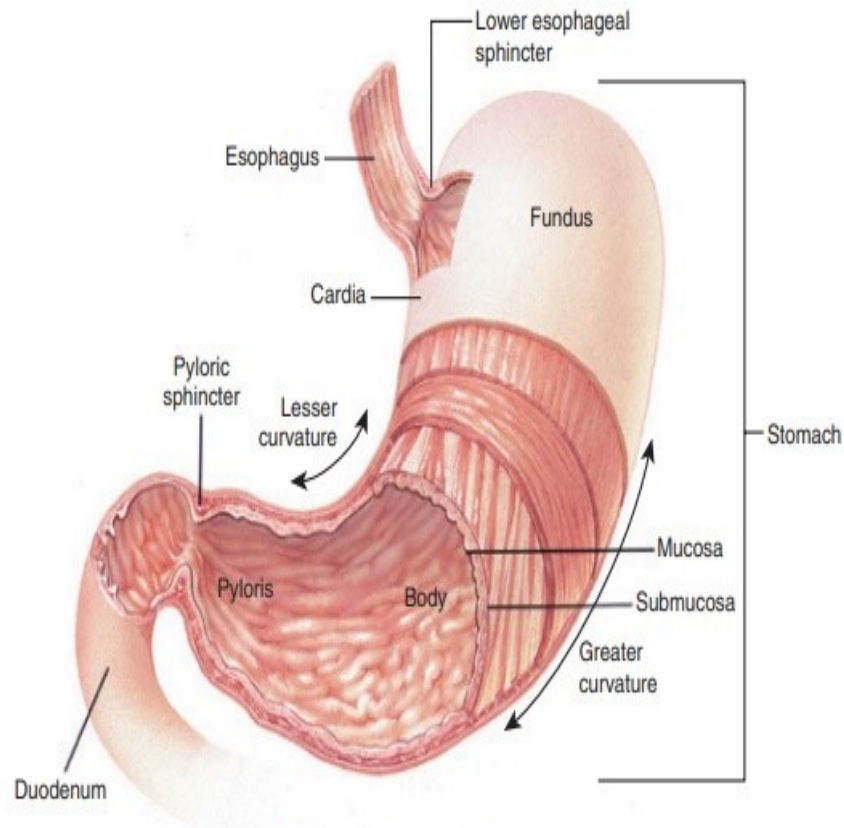
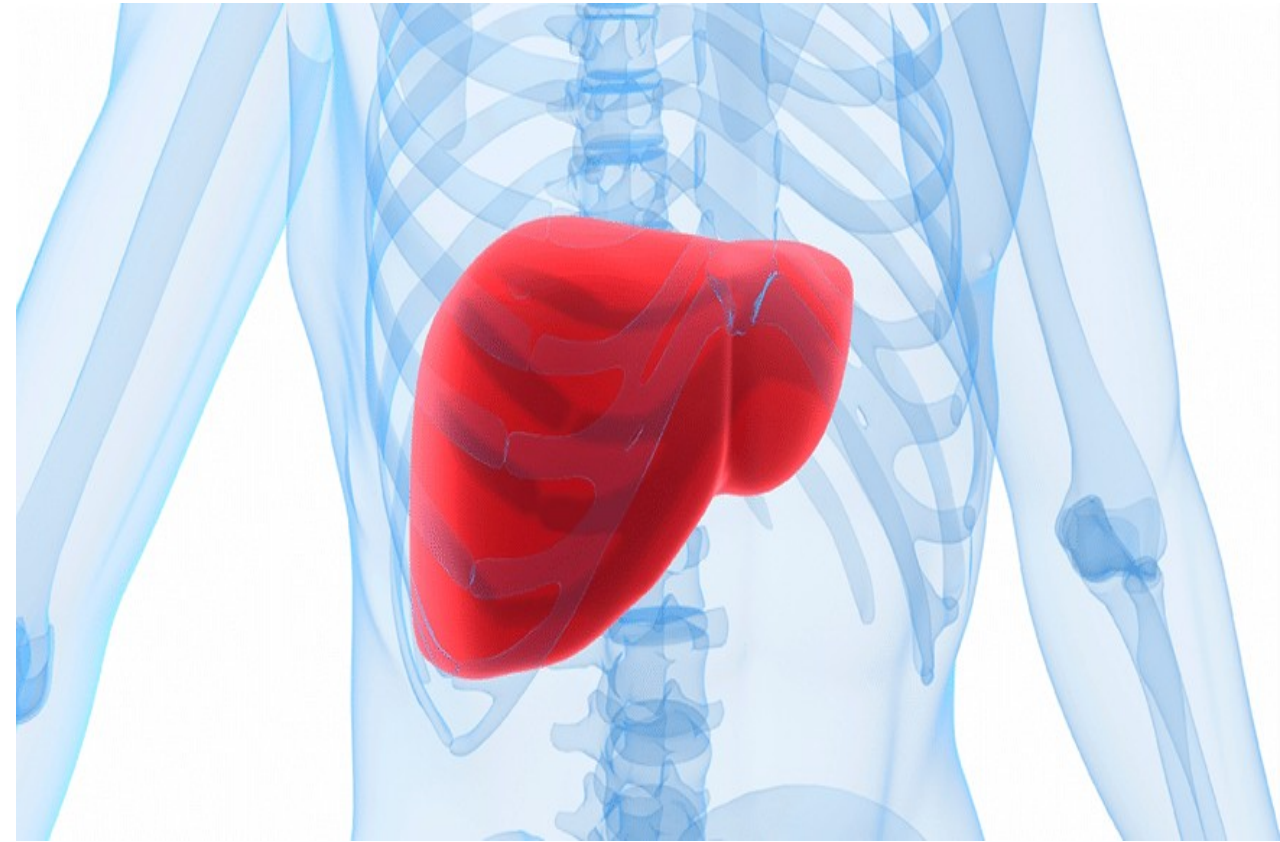
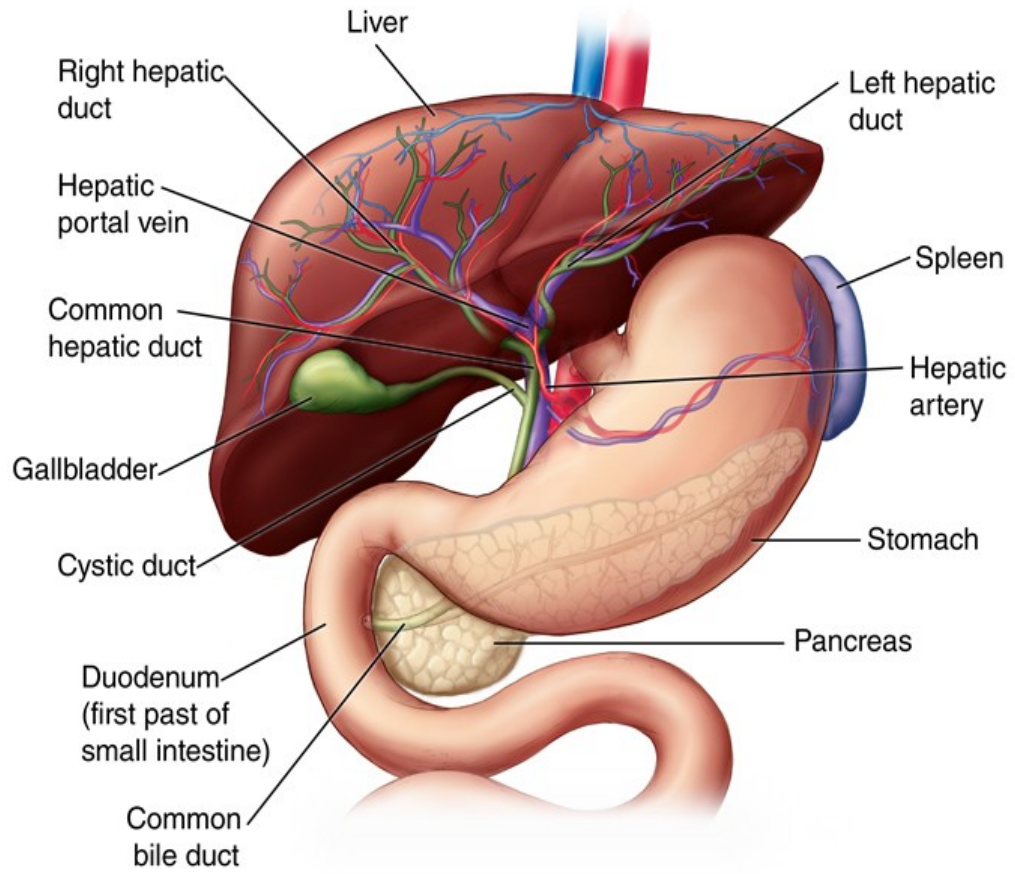


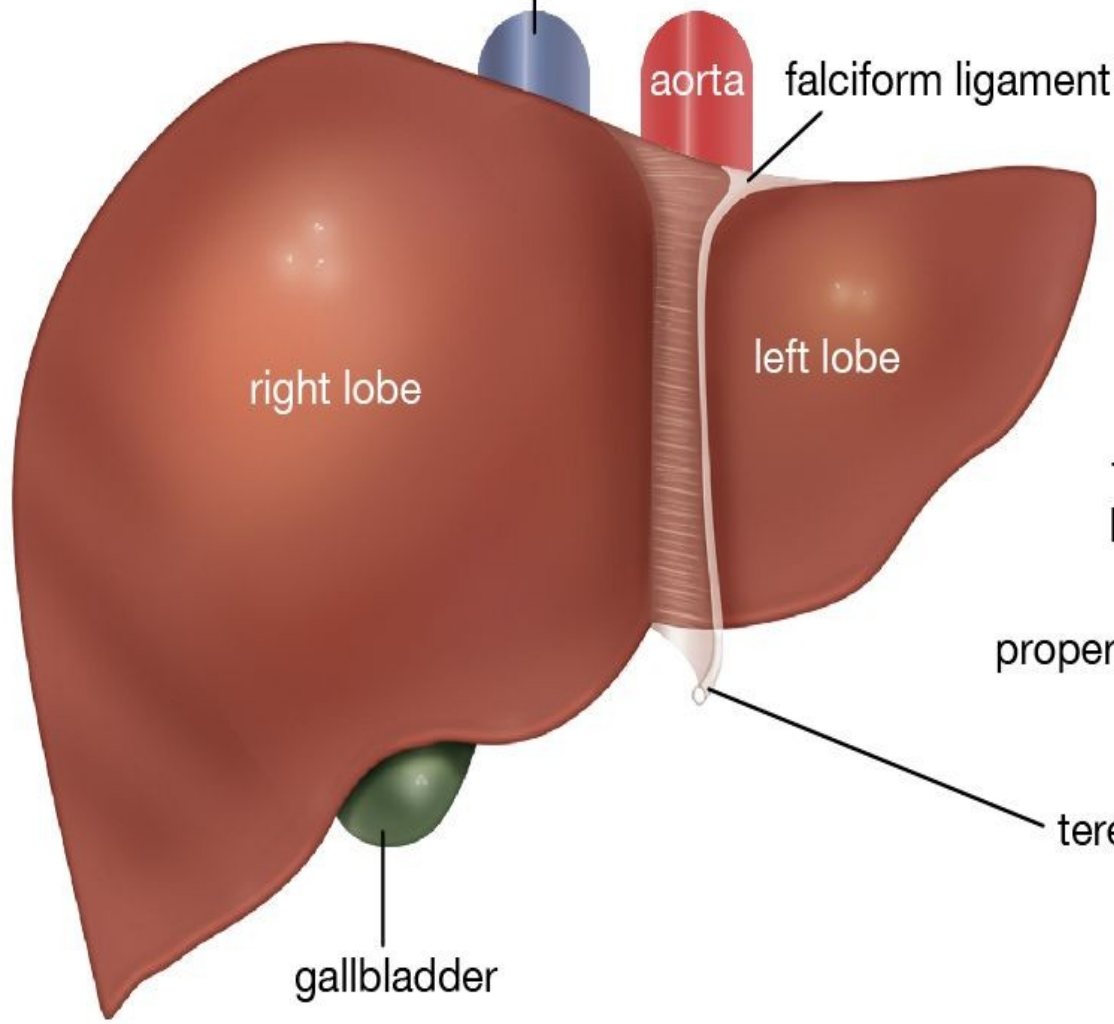
FIGURE The stomach.

- Funkce:
- Mechanická
- Chemická
 - HCl
 - Pepsin
 - Vnitřní faktor
- Mucin
- <https://youtu.be/ZuJzYYIS9c4>

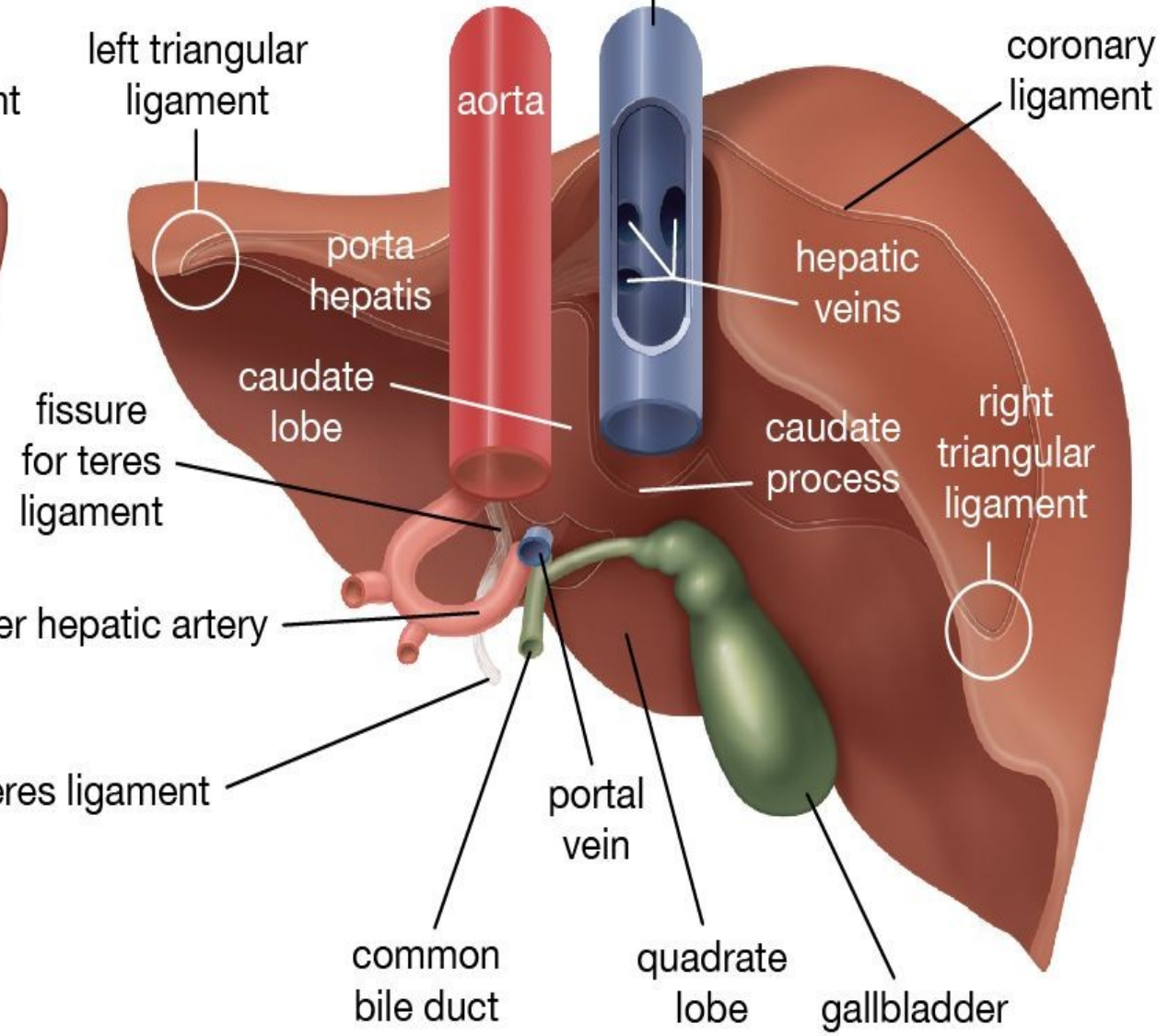
Játra



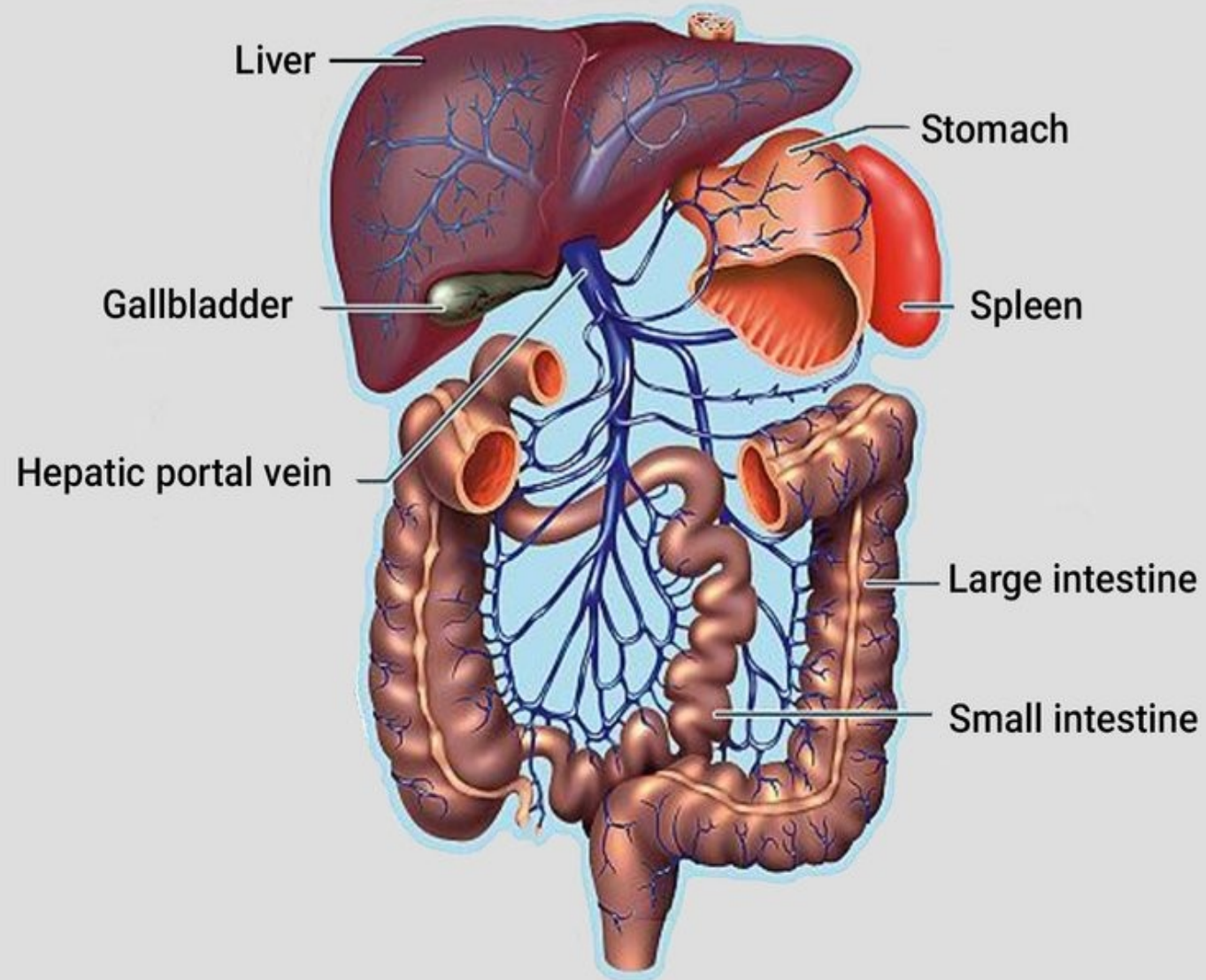
anterior view

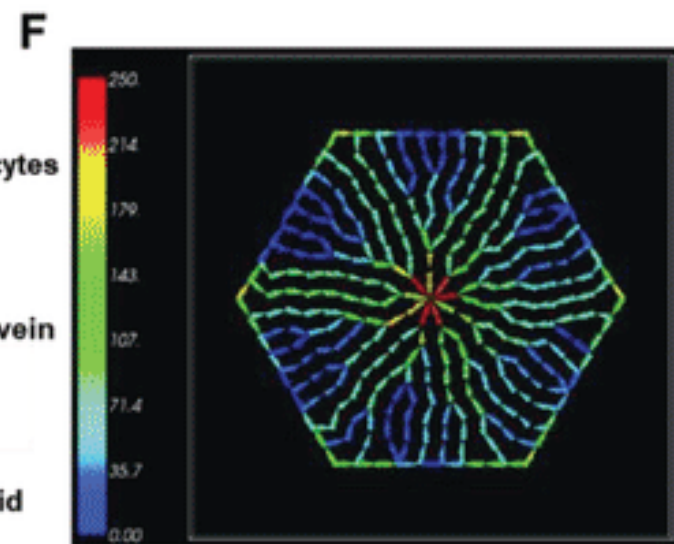
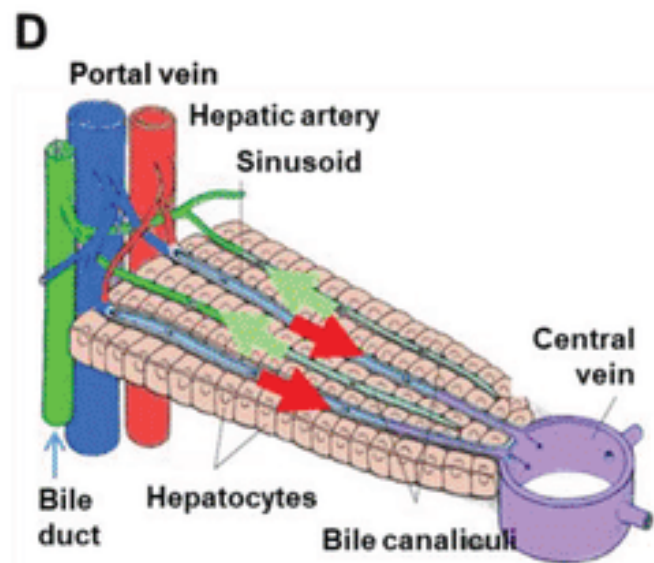
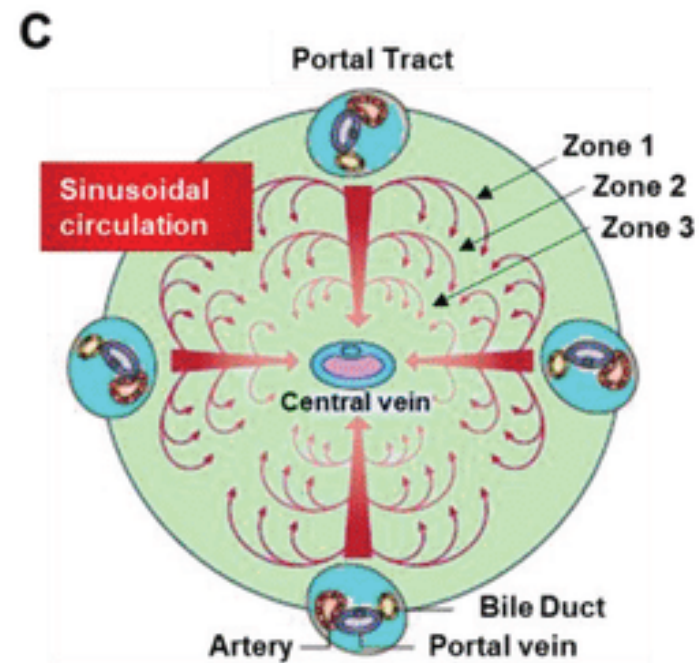
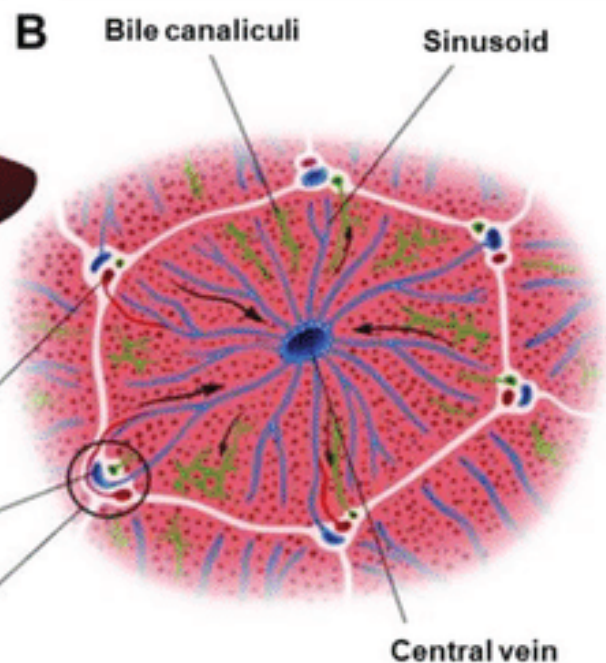
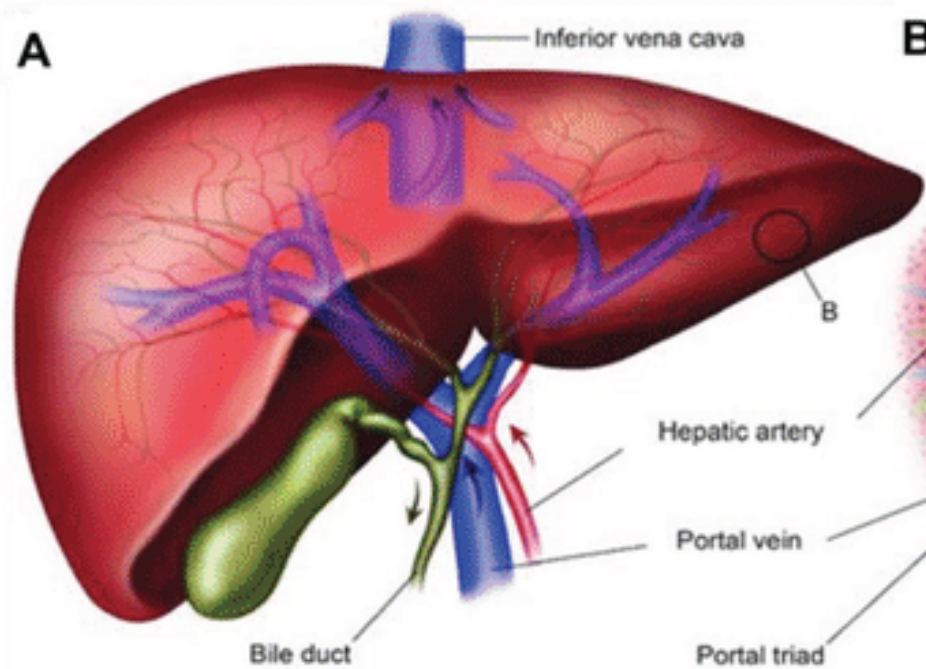


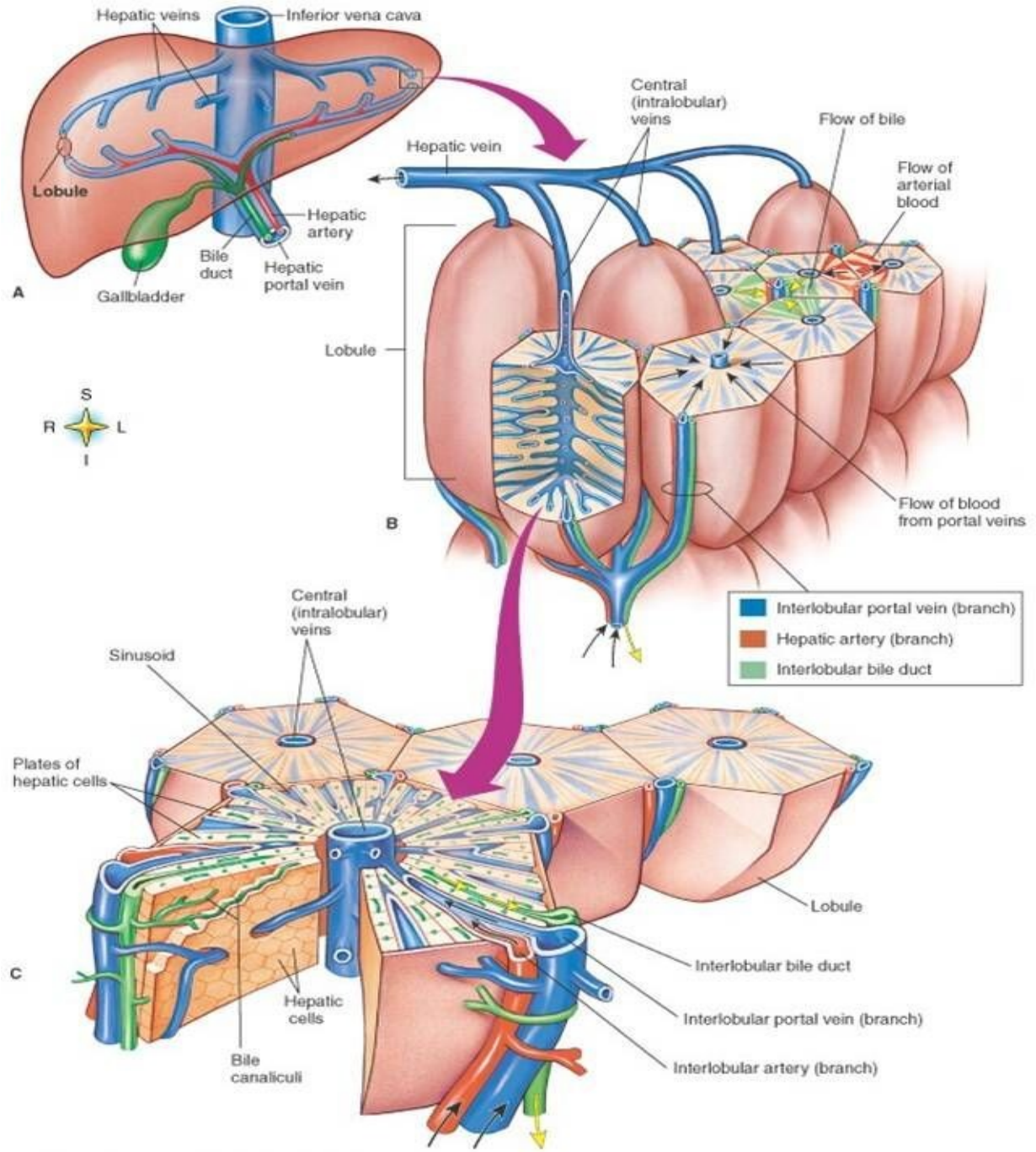
posterior view



Portální oběh

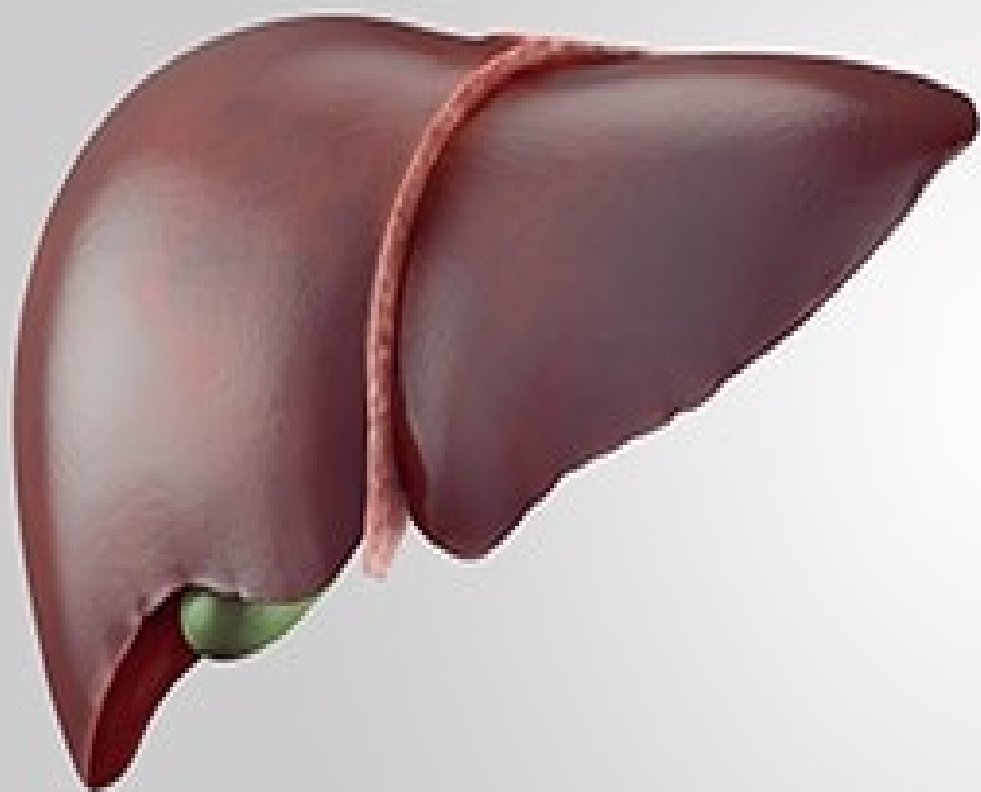




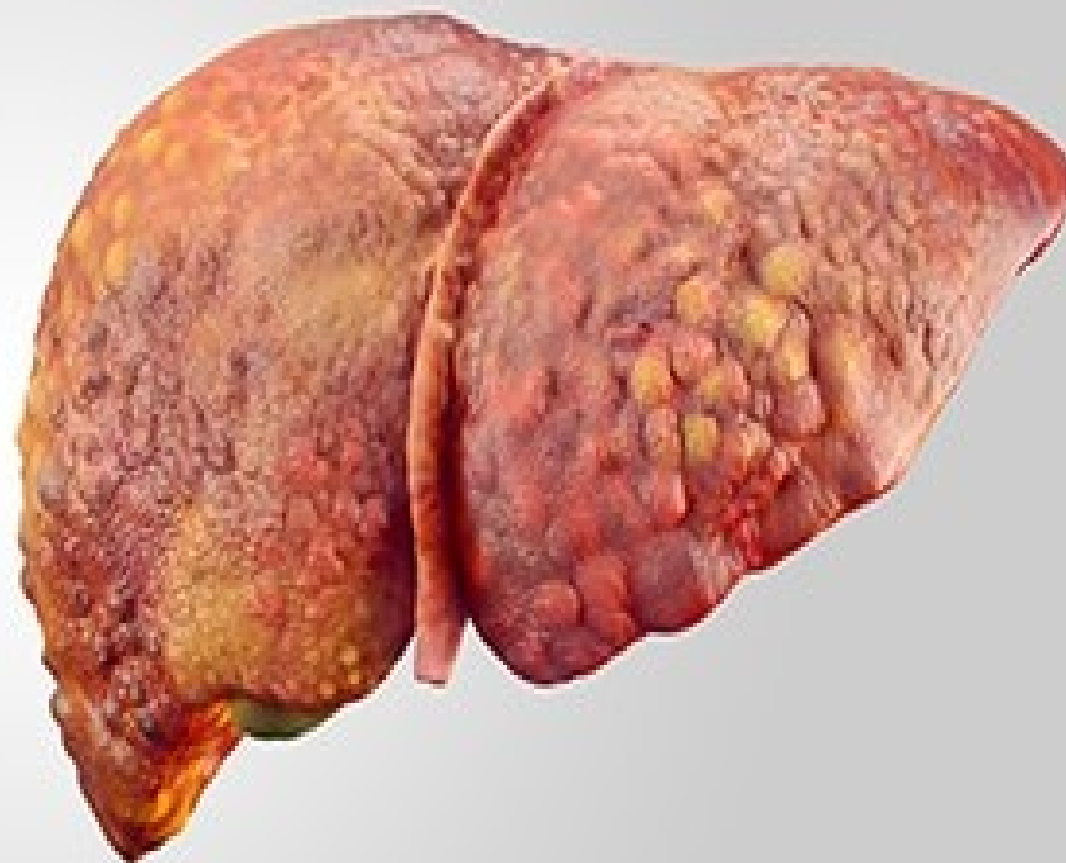


Funkce jater

- <https://youtu.be/Qxnq3gj8Pa4>

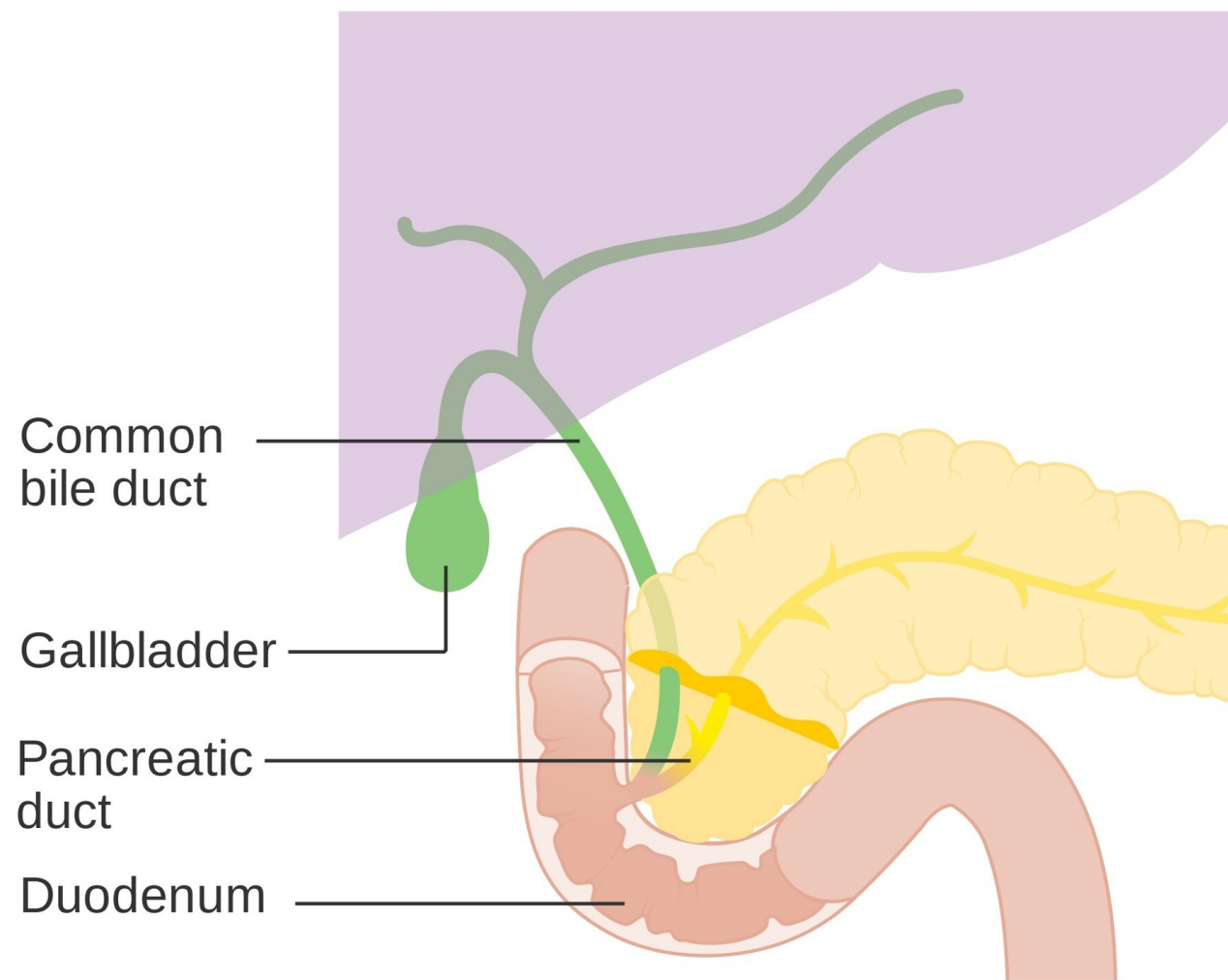


healthy liver

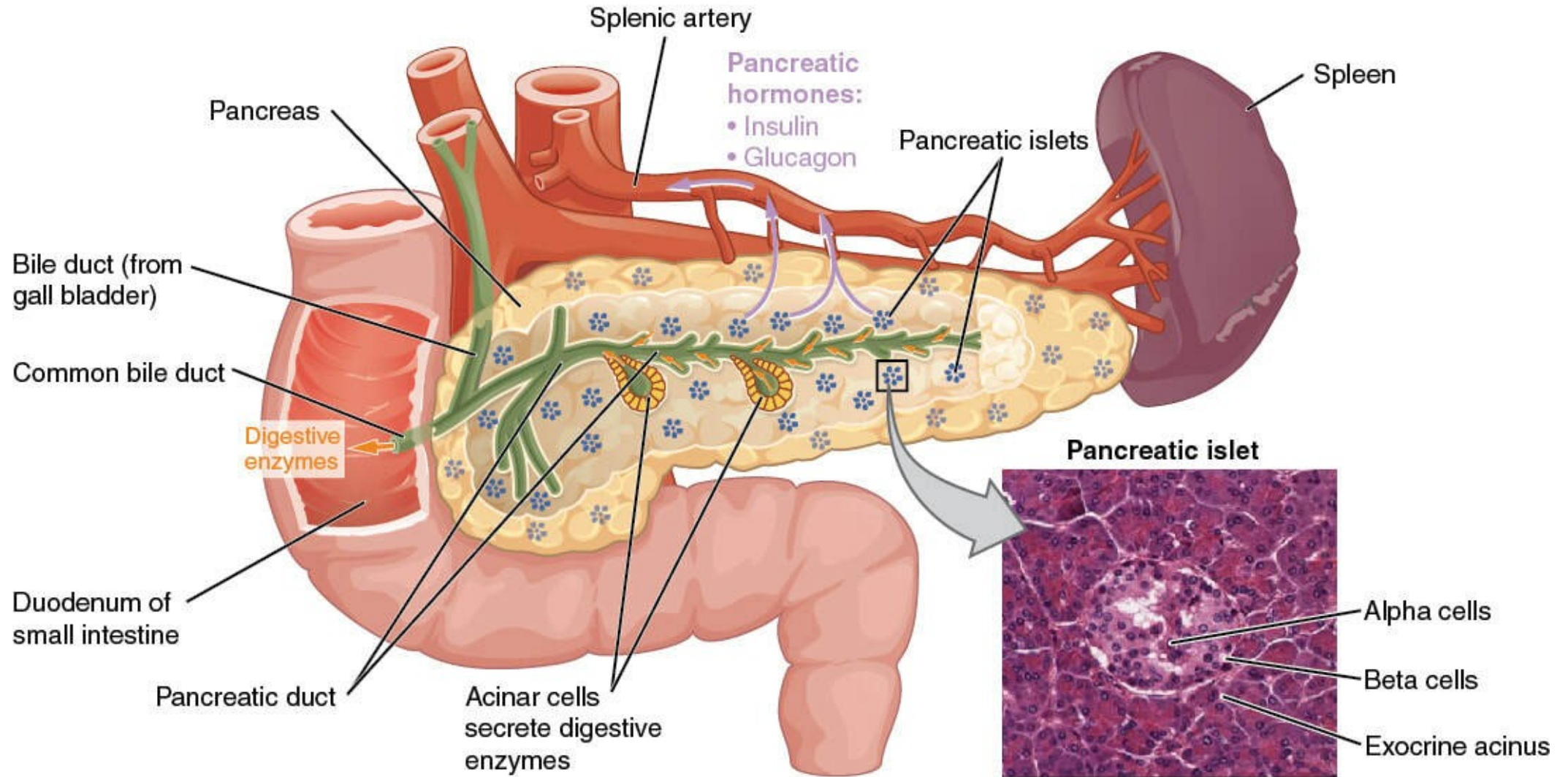


cirrhosis

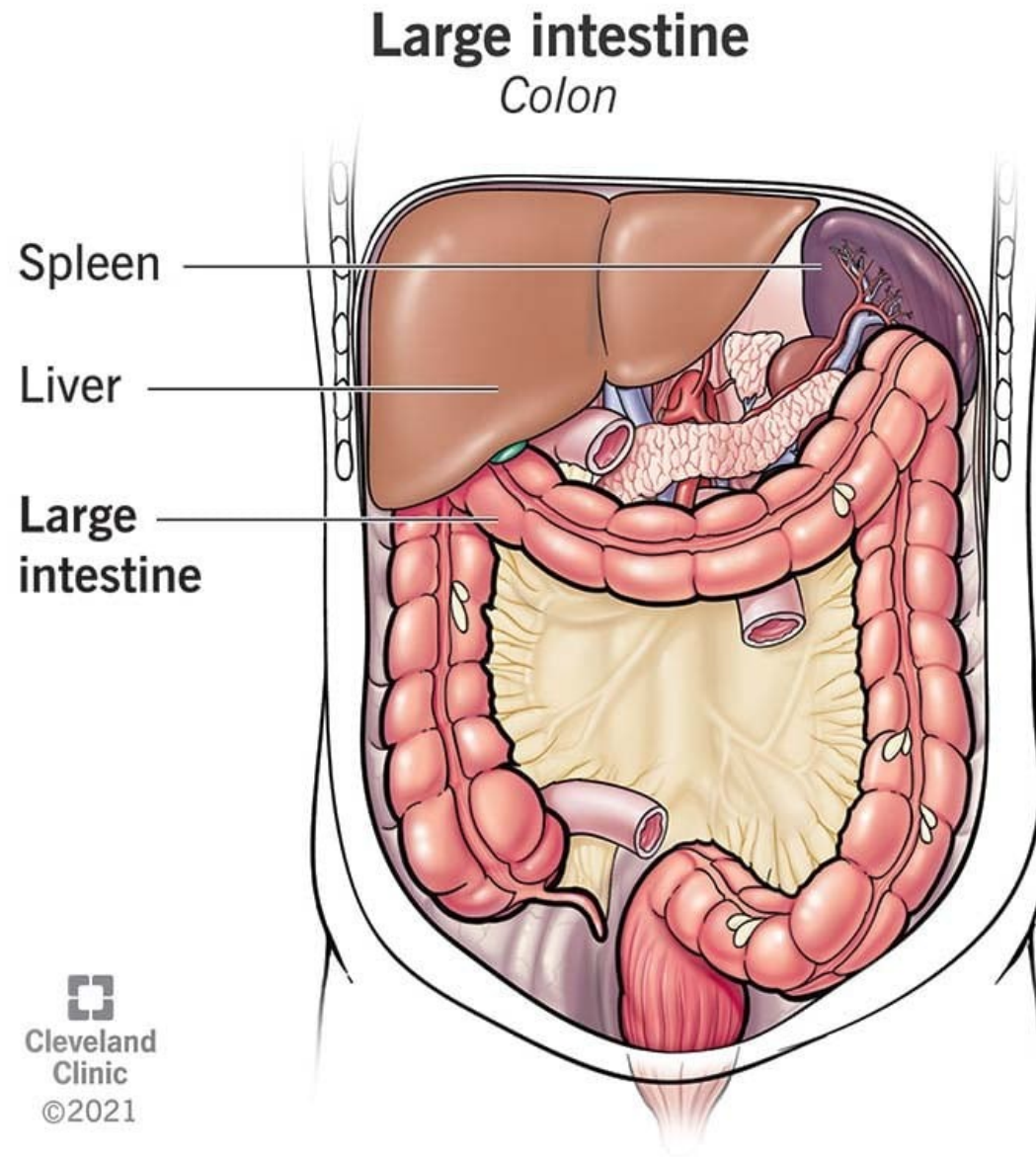
Žlučové cesty



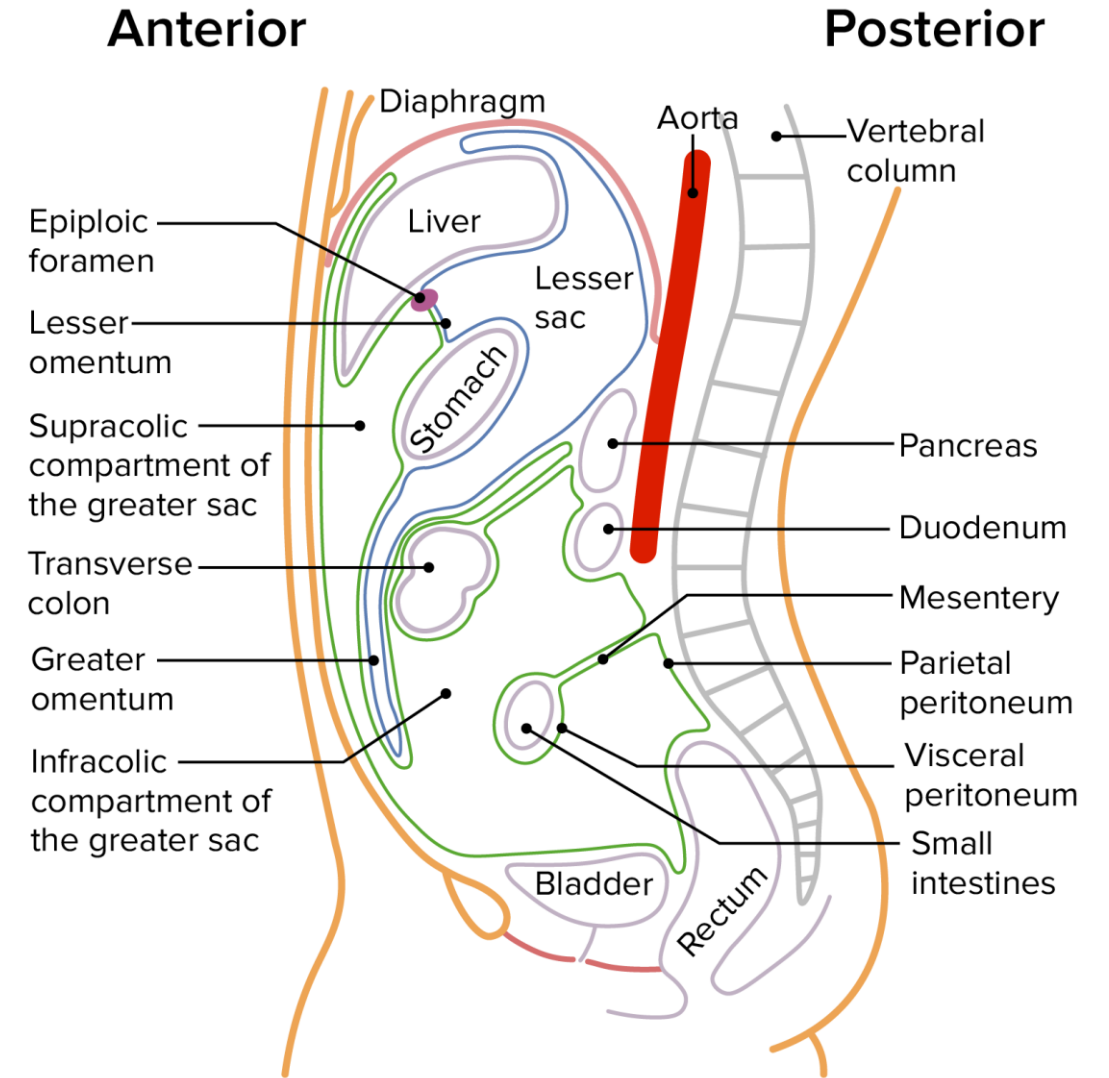
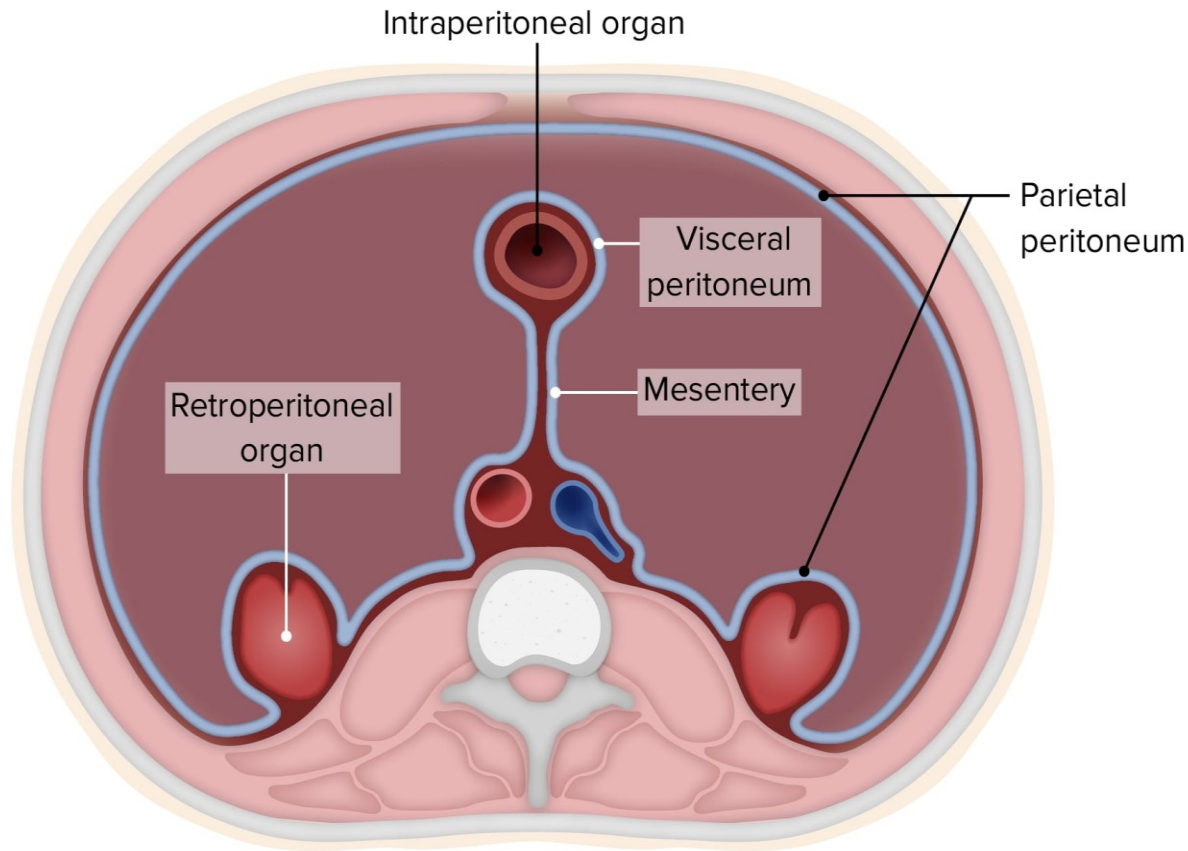
Slinivka břišní, pancreas

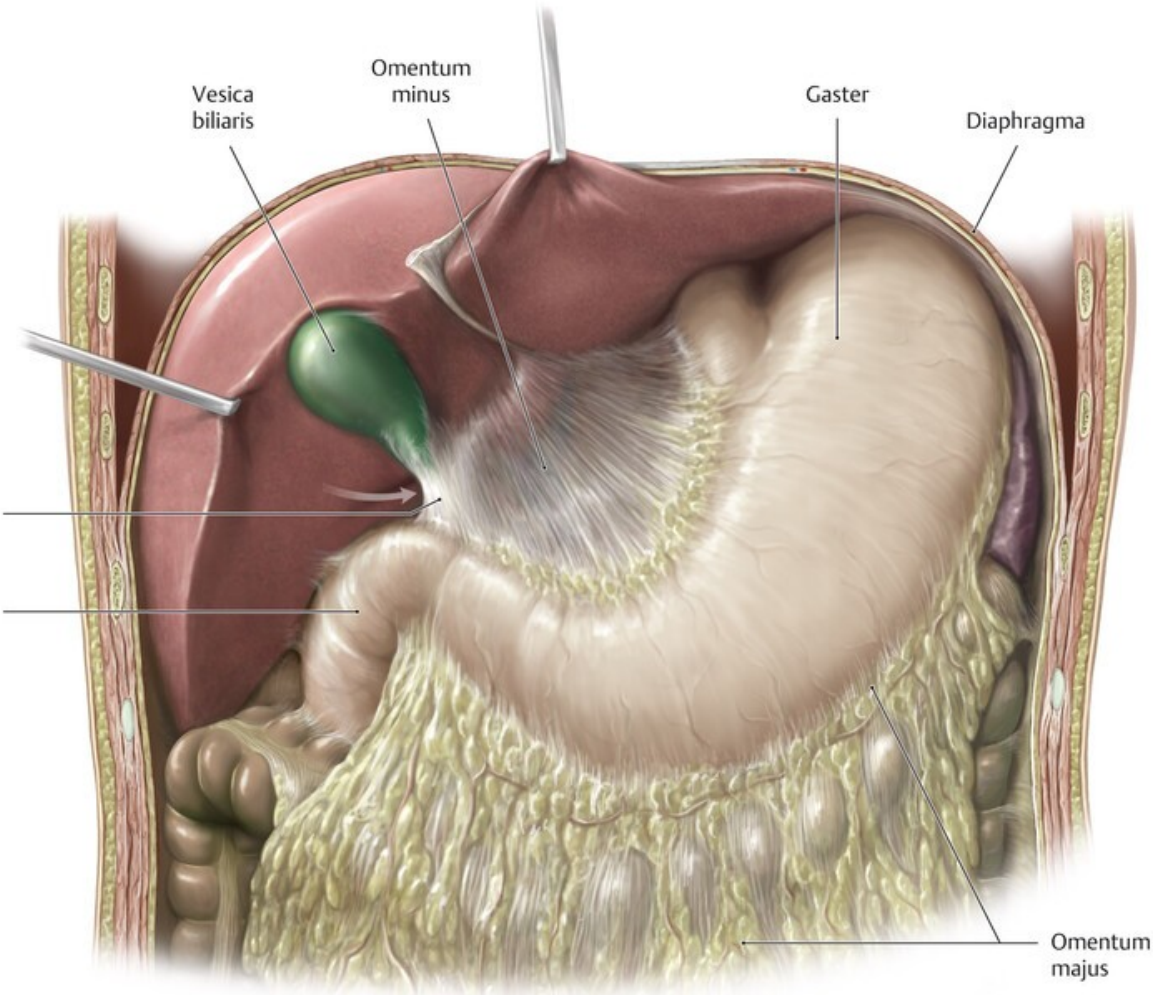
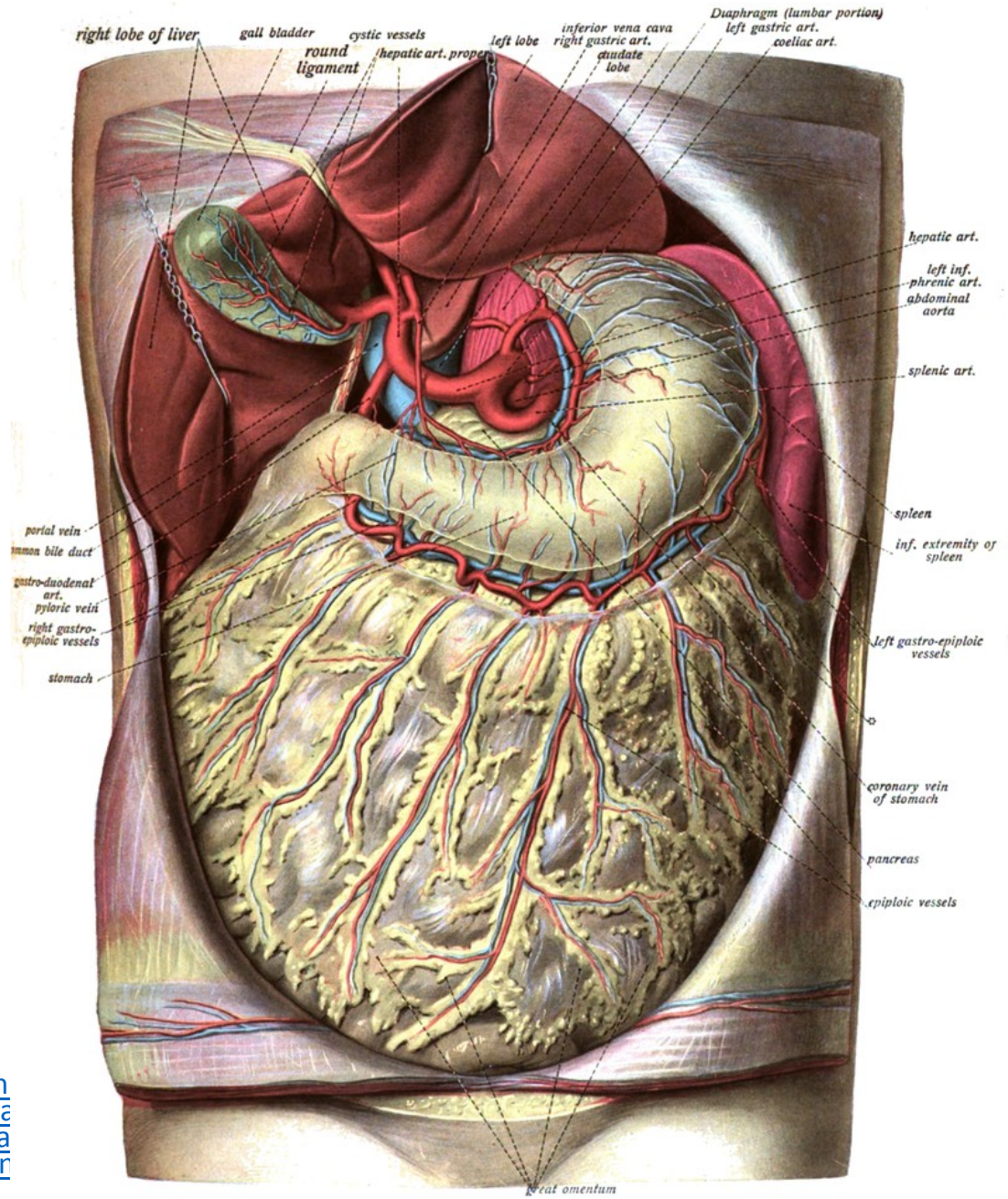


Střeva

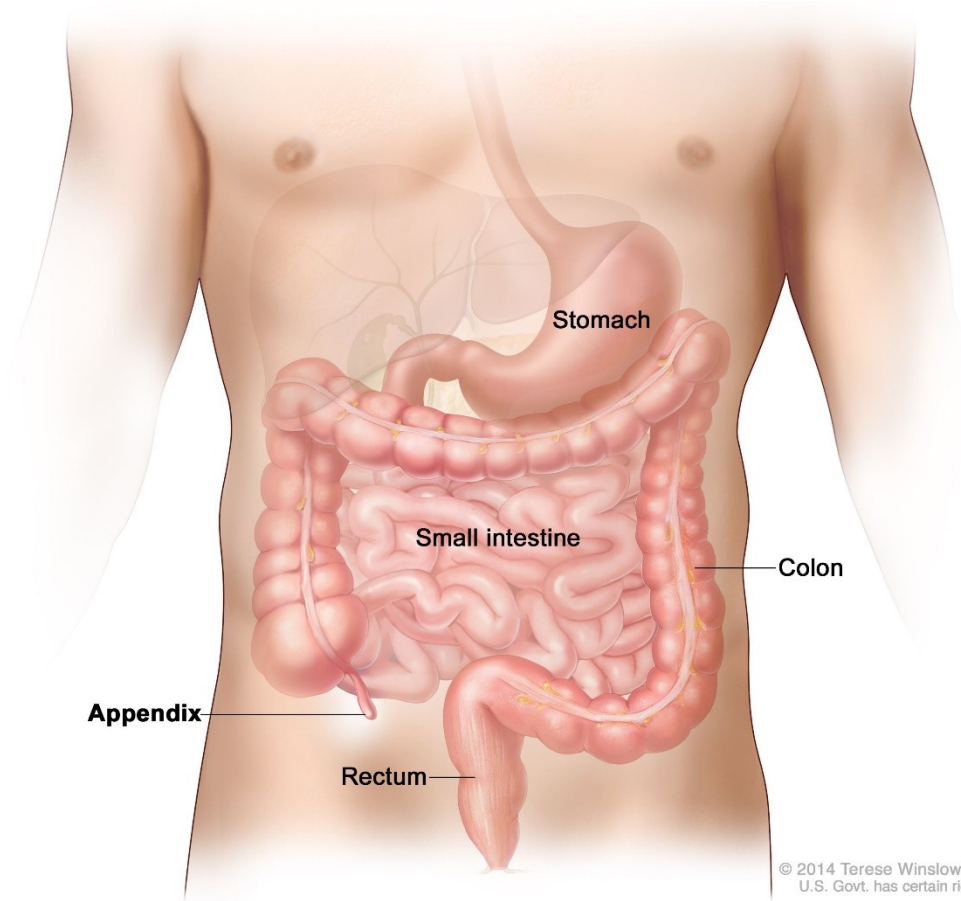


Peritoneum

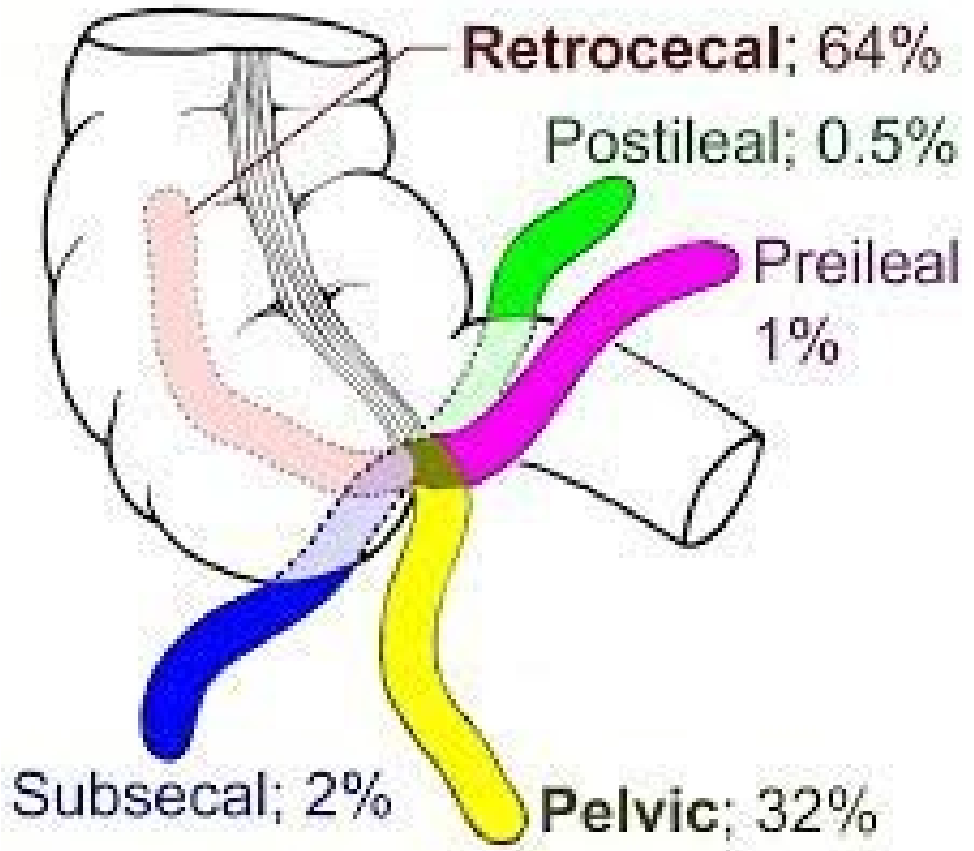




Appendix

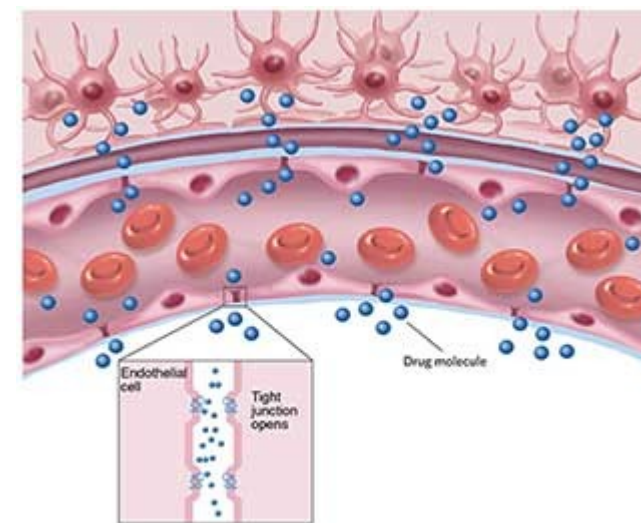
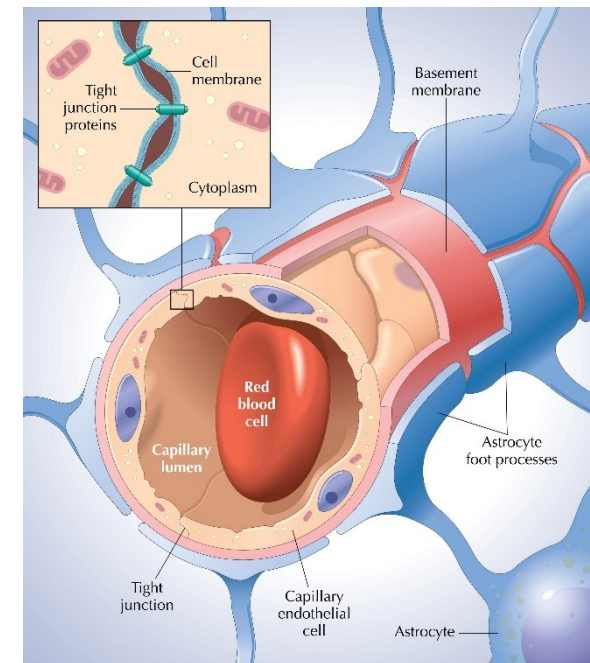
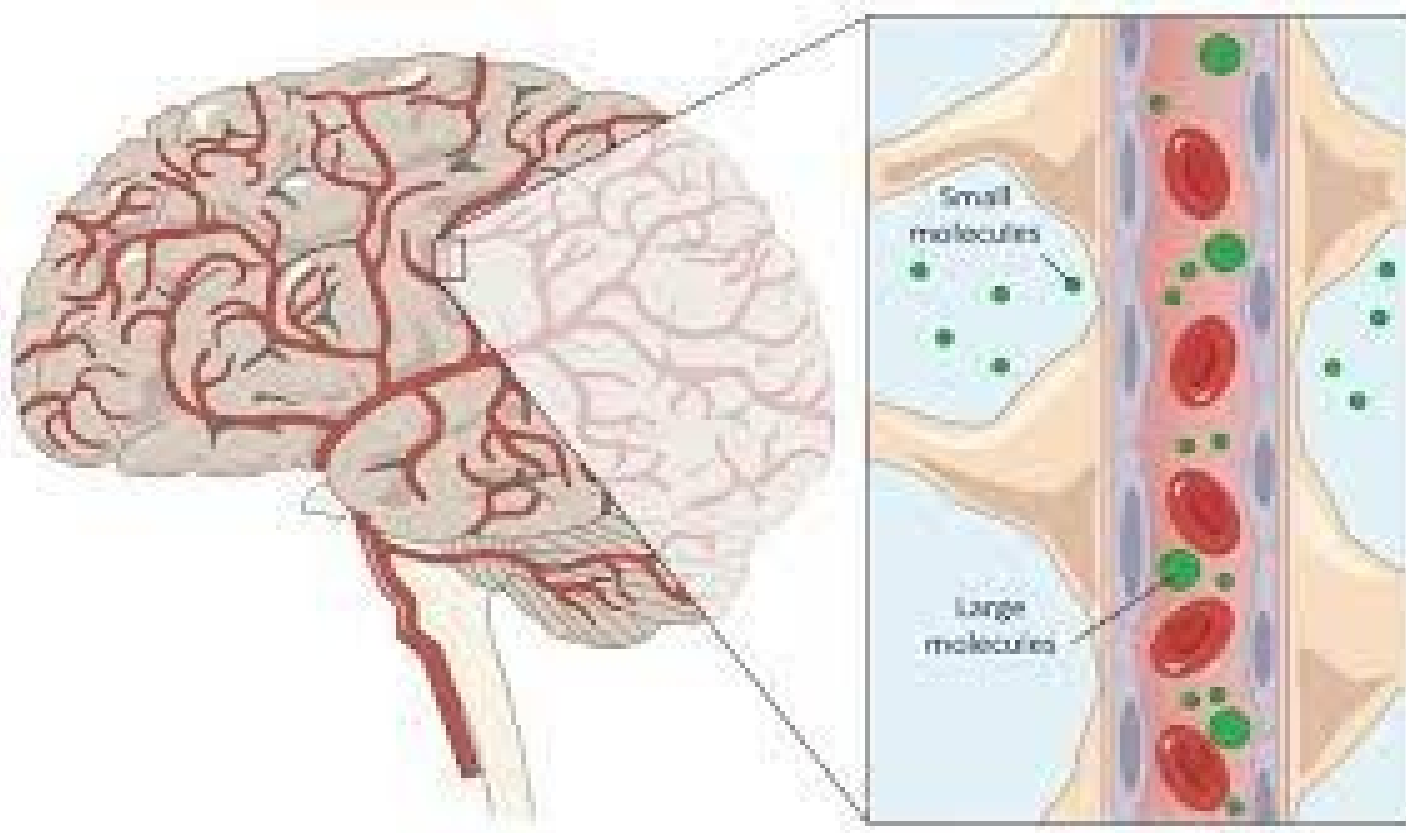


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Hematoencefalická bariéra

- <https://www.youtube.com/watch?v=noWwbvmdhL0>



[https://www.google.com/search?q=hematoencephalic+barrier&tbm=isch&ved=2ahUKEwjkhLTb-cz7AhUOtKQKHYYwAI4Q2-cCegQIABAA&oeq=hematoencephalic&gs_lcp=CgNpbWcQARgAMgUIABCABDIECAAQHjIECAAQHjIECAAQHjIECAAQgAQQGDoGCAAQBxAeOgQIABBDoggIABCABBCxAzoGCAAQBRAeUP8KWLmzYPFGaABwAHgAgAftiAHL5IBBDEzLjSYAQcGAAQgAQtdn3Mtd2I6LWltZ8ABAQ&scIent=img&ei=mJqCY-TYDI7okgWG4YjwBQ&bih=241&biw=615&rlz=1C1CHBF_encZ924C2924&hl=cs#imgsrc=hXA8pztExr9FLM](https://www.google.com/search?q=hematoencephalic+barrier&tbm=isch&ved=2ahUKEwjkhLTb-cz7AhUOtKQKHYYwAI4Q2-cCegQIABAA&oeq=hematoencephalic&gs_lcp=CgNpbWcQARgAMgUIABCABDIECAAQHjIECAAQHjIECAAQHjIECAAQHjIECAAQgAQQGDoGCAAQBxAeOgQIABBDoggIABCABBCxAzoGCAAQBRAeUP8KWLmzYPFGaABwAHgAgAftiAHL5IBBDEzLjSYAQcGAAQgAQtdn3Mtd2I6LWltZ8ABAQ&scIent=img&ei=mJqCY-TYDI7okgWG4YjwBQ&bih=241&biw=615&rlz=1C1CHBF_encZ924C2924&hl=cs#imgsrc=hXA8pztExr9FLM)