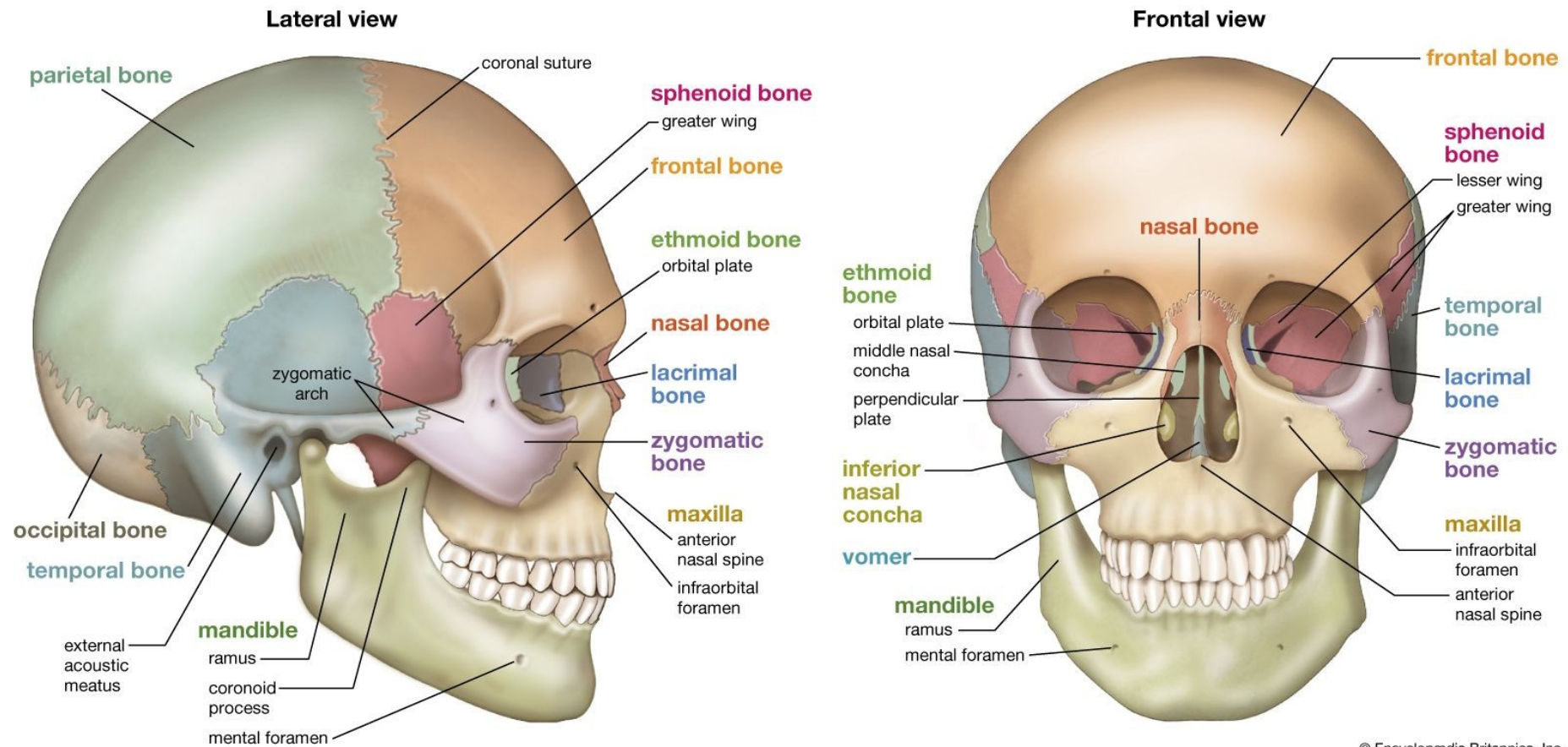
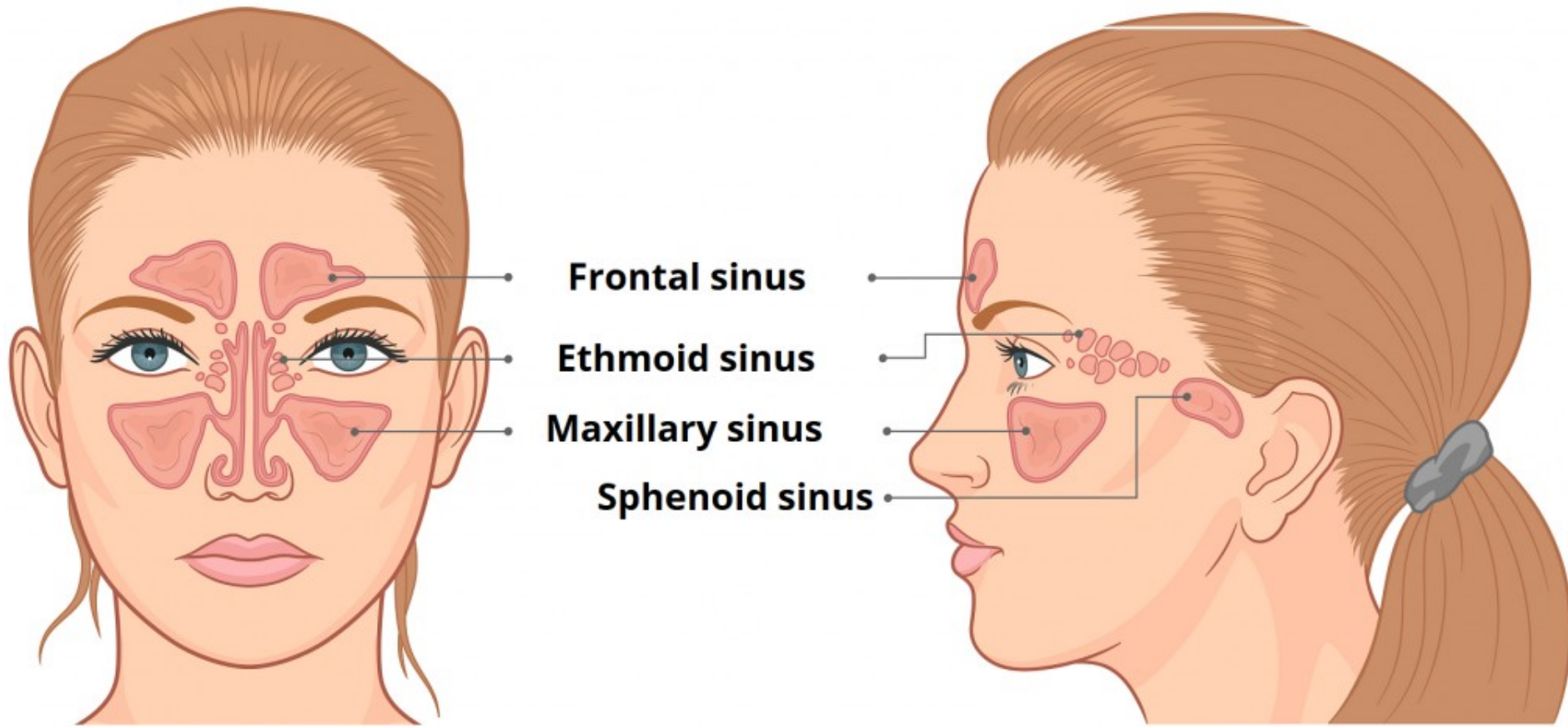


Kostra - lebka

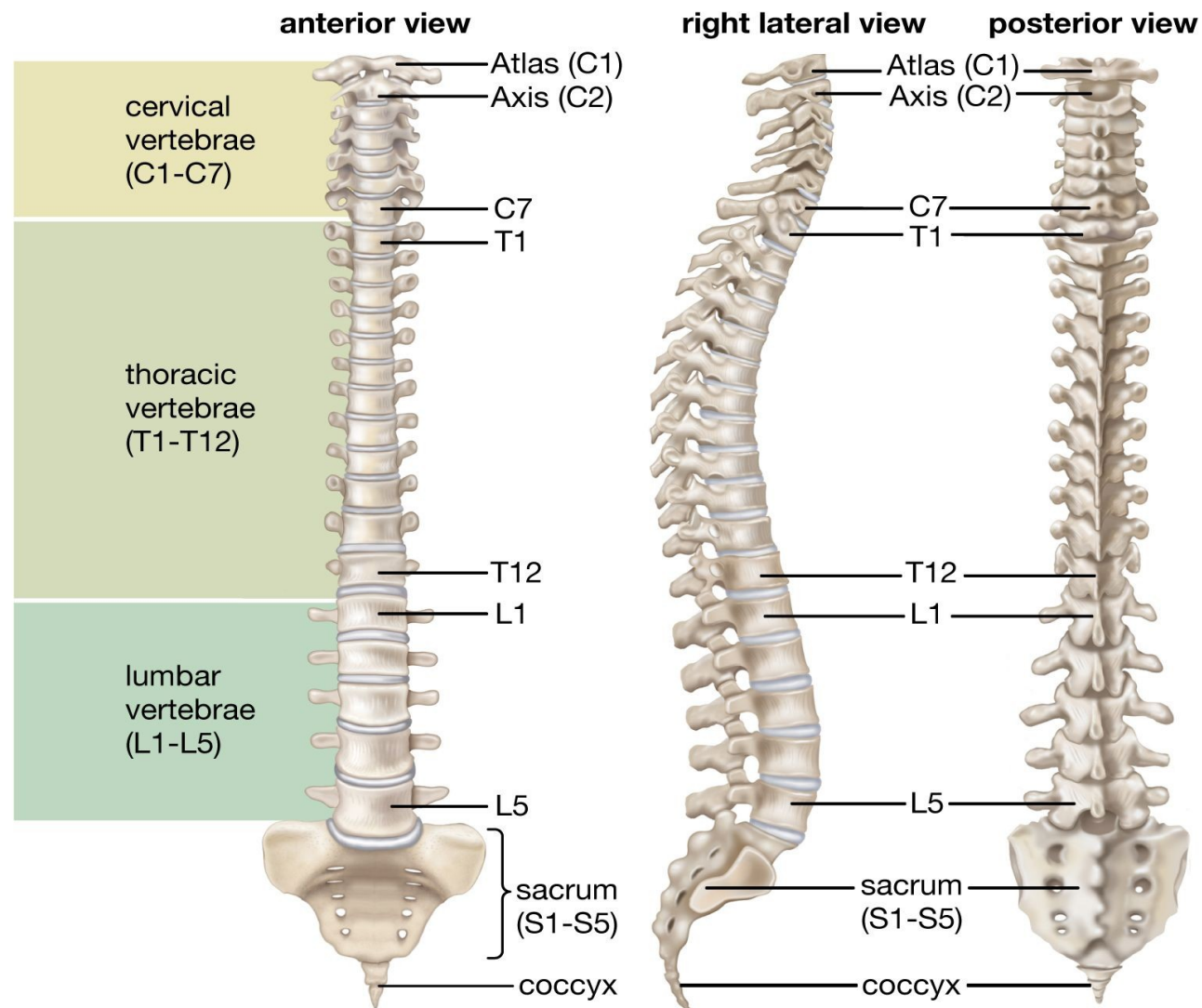


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Vedlejší dutiny nosní – sinusi paranasales



Páteř – Columna vertebrarum



Spojení Atlas – axis C1- C2

https://youtu.be/am_OPxAXGK4

The first two cervical vertebrae: the atlas and the axis

Dens (odontoid process)

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

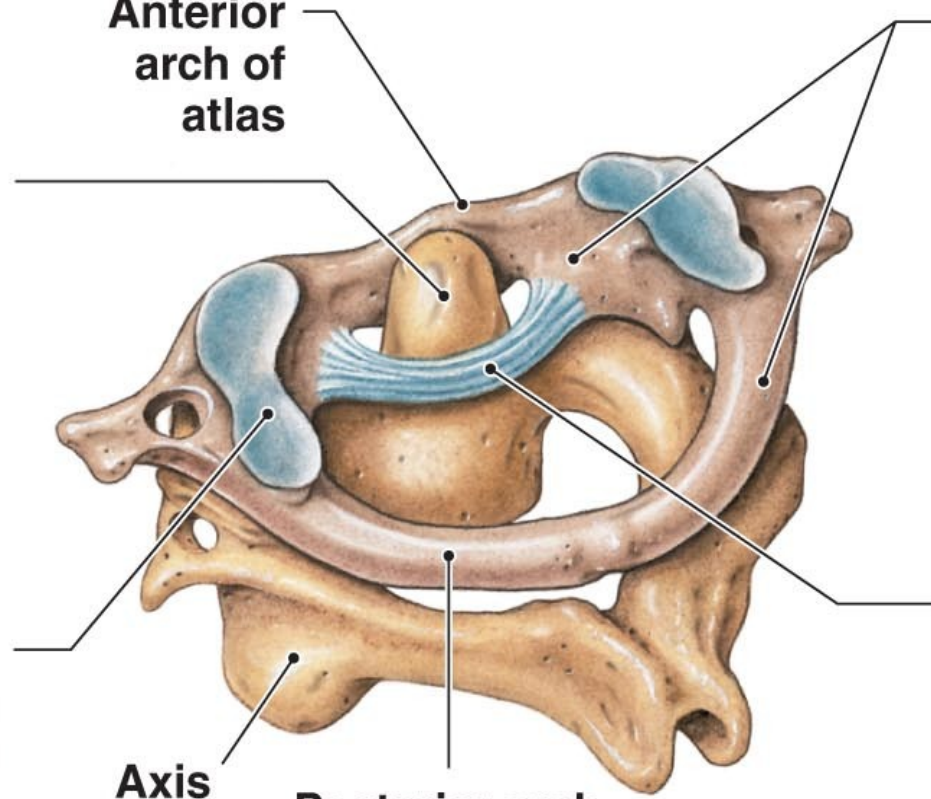
Anterior arch of atlas

Axis

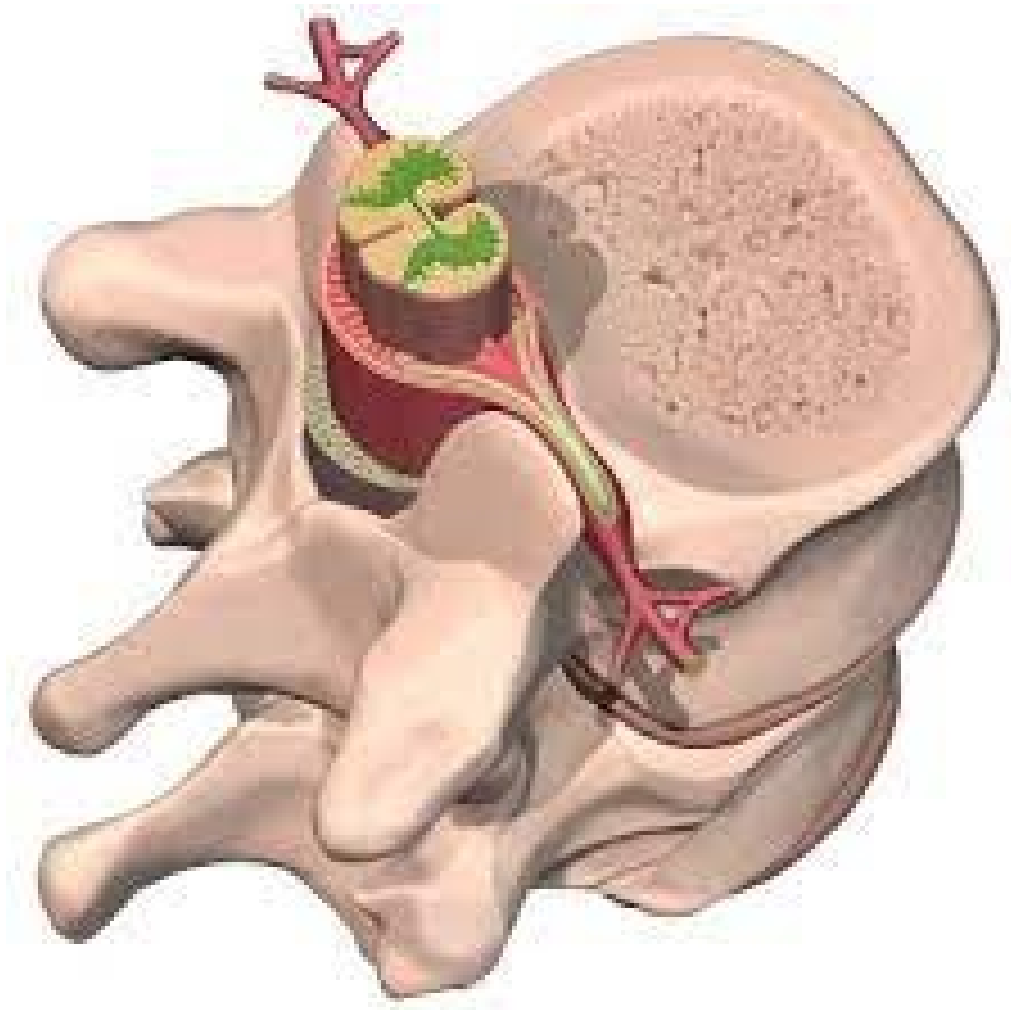
Posterior arch of atlas

Atlas

Ligament that enables rotation (as in shaking the head to indicate “no”)

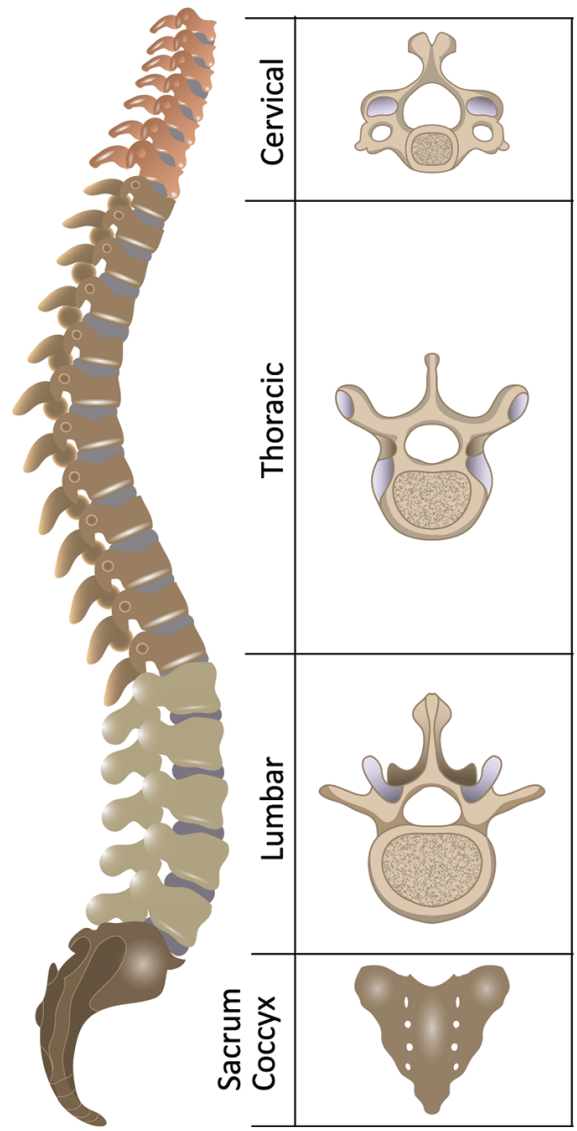


https://www.google.cz/search?q=outputs+nerves+from+vertebrae&tbm=isch&ved=2ahUKEwif_oXR1sz7AhXUXgIHHTCcb2UQ2cCegQlABAA&eq=outputs+nerves+from+vertebrae&gs_lcp=CgNpbWcQAzoFCAAQgAQ6BAGAEEM6BgBAEAcQHjoICAAQCBABEB50tYzYgHFg6HVoAXAAeACACMBiAGSEpiBBdguMT0YAQCgAQOqAQAdnd3Mtd2l6LWltZ8ABAQ&scient=img&ei=z3WCY8XdtsNI-gPsIeqAV&bih=255&biw=628#imgc=YcdxTPfBR3n5M



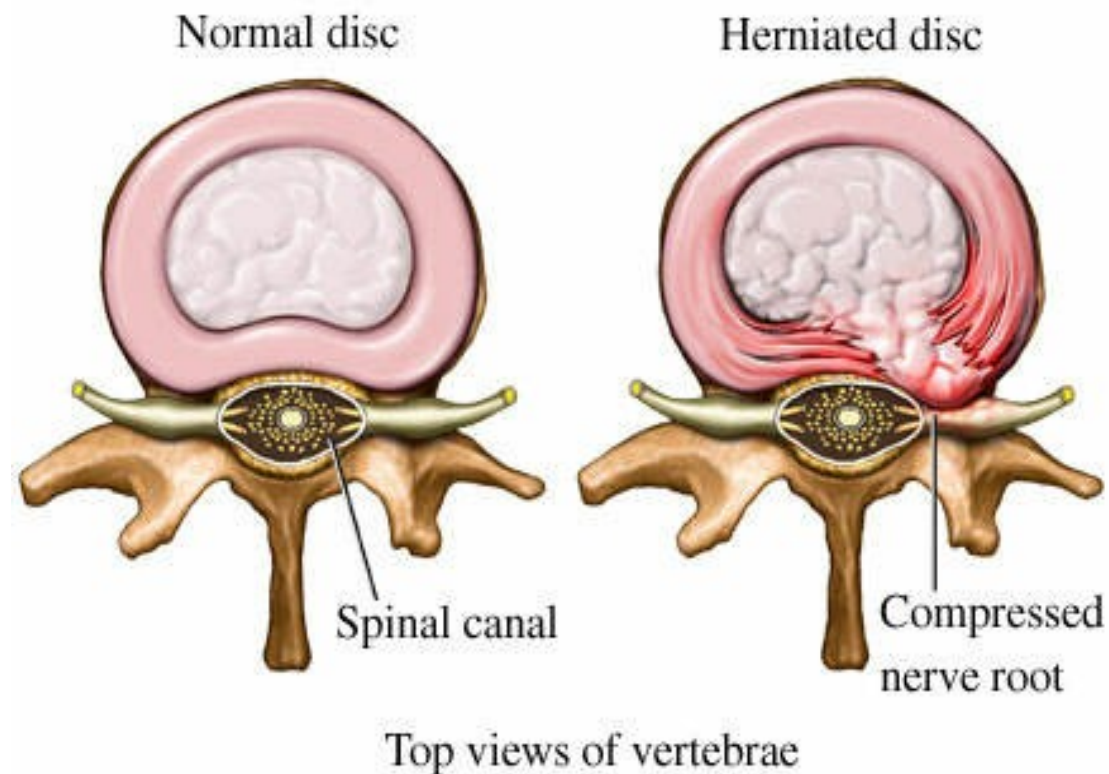
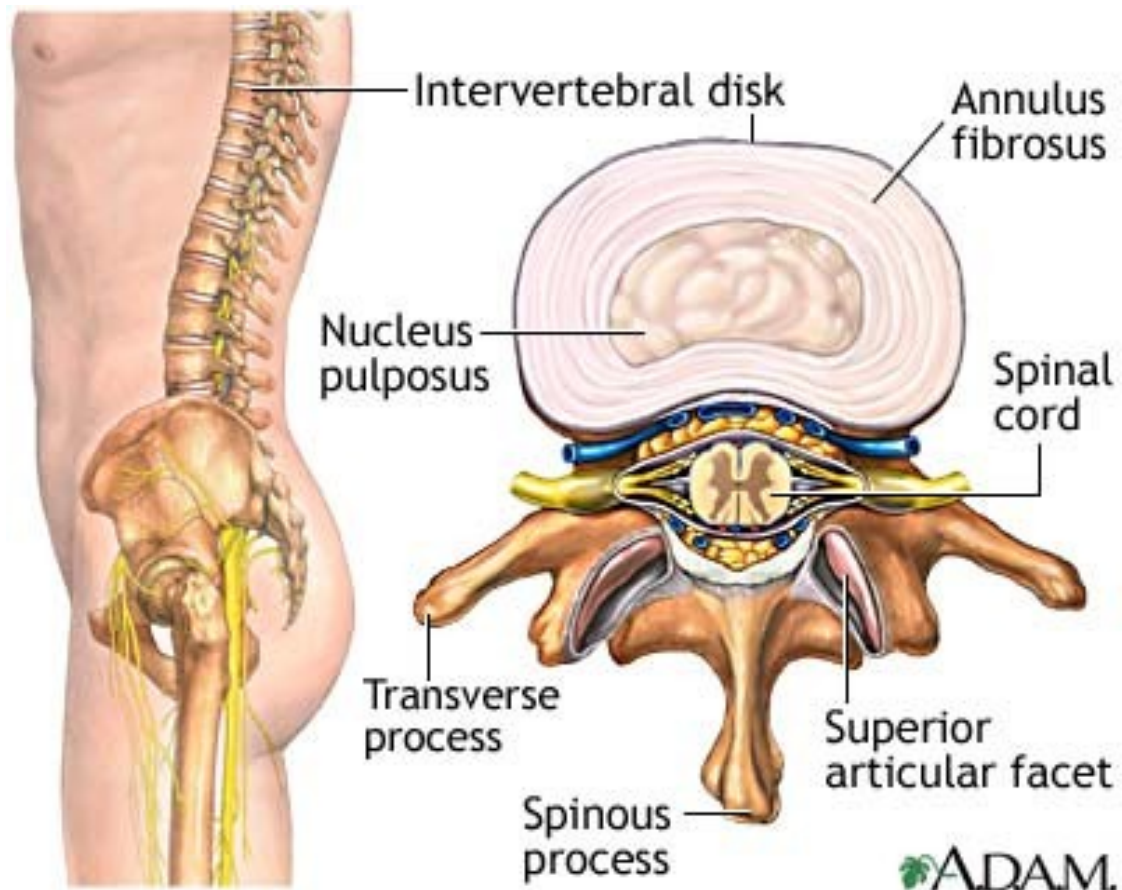
vertebra,

Obratel, stavba
vertebrae



https://www.google.cz/search?q=vertebrae&source=lm&tbm=isch&sa=X&ved=2ahUKEwjT0lvQ1sz7AhVcSKQKHb9aAa4Q_AUoAXoECAIQAw&biw=628&bih=255&dpr=1.5#imgc=10ycP55HTTWIAM

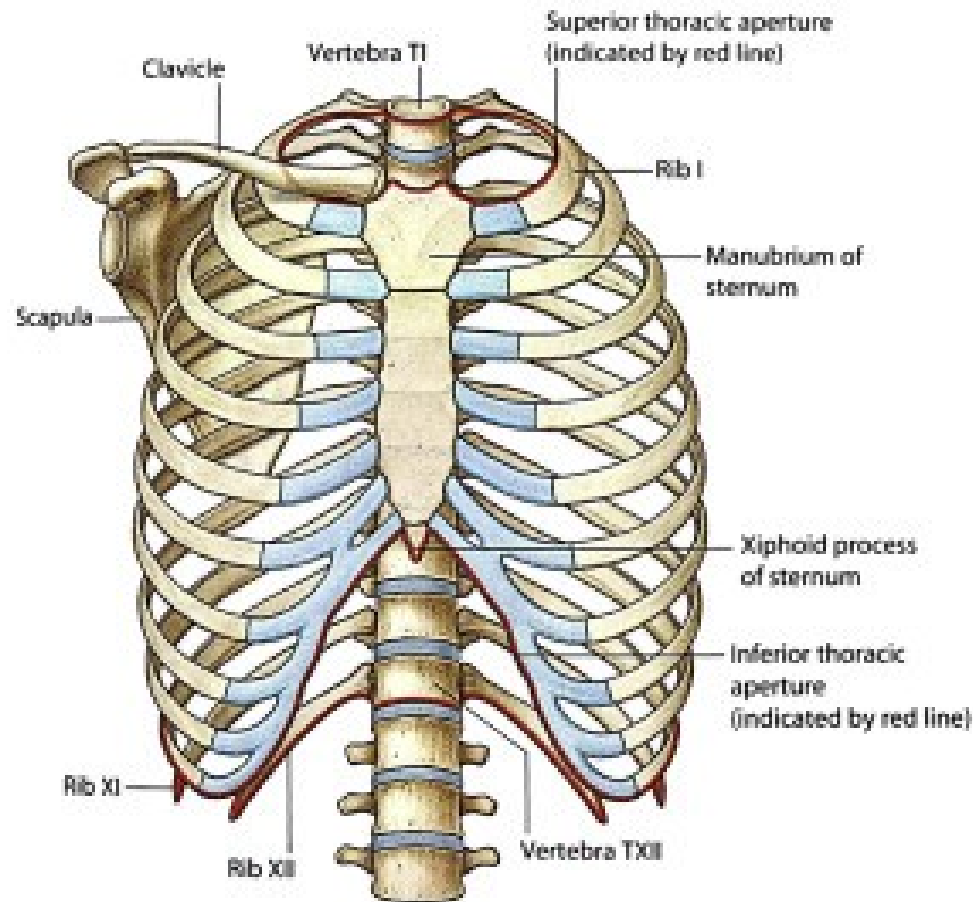
Meziobratlové ploténky, discus intervertebralis



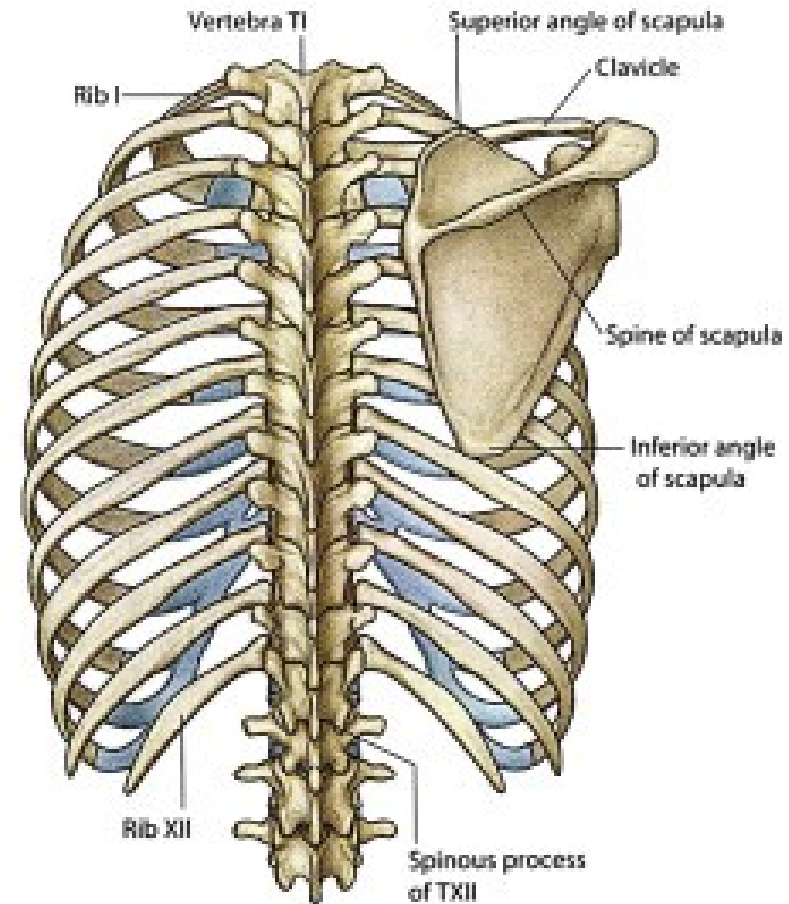
[https://www.google.cz/search?q=discus+intervertebralis&tbm=isch&ved=2ahUKEwjz69O118z7AhX-xglHHDwC5QAQ2-cCegQJABAA&oq=discus+inter&gs_lcp=CgNpbWcQARgAMgUABCBADIECAAQHjIECAAQHjIECAAQHjIECAAQHjIECAAQBR AeMgYIABAEb4yBAGAEb46CAGAEIAEELED0QJABBDULQJWLkhYNYvaABwAHgAgAGqAogBgwySAQU0LjguMZgBAKABA aoBC2d3cy13aXotaW1nwAEb&scient=img&ei=Q3aCY7O-NP6Ni-gP0OGtgAk&bih=255&biw=628#imgrc=qNgHlkOmRuirAM](https://www.google.cz/search?q=discus+intervertebralis&tbm=isch&ved=2ahUKEwjz69O118z7AhX-xglHHDwC5QAQ2-cCegQJABAA&oq=discus+inter&gs_lcp=CgNpbWcQARgAMgUABCBADIECAAQHjIECAAQHjIECAAQHjIECAAQHjIECAAQHjIECAAQBR AeMgYIABAEb4yBAGAEb46CAGAEIAEELED0QJABBDULQJWLkhYNYvaABwAHgAgAGqAogBgwySAQU0LjguMZgBAKABA 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=2ahUKUwjkrMGE2Mz7AhWRNewKHTR9D9gQ2-cCegQIABAA&eq=prolaps+discus+intervertebralis&gs_lcp=CgNpbWcQAzoFCAAQgAQ6BggAEAcQHjoECAAQHIDLLiaQGcQrRGgACAB4AIA80QGIAYgIkgeFNC40LjGYAQcGAQGgAQQtnd3Mtd2l6LWtZ8ABAQ&scient=img&ei=R3ceY6TtJHrsAe0-r3ADQg&bih=255&biw=628&imgsrc=iJK645pwG6sGdM

Hrudník, Thorax



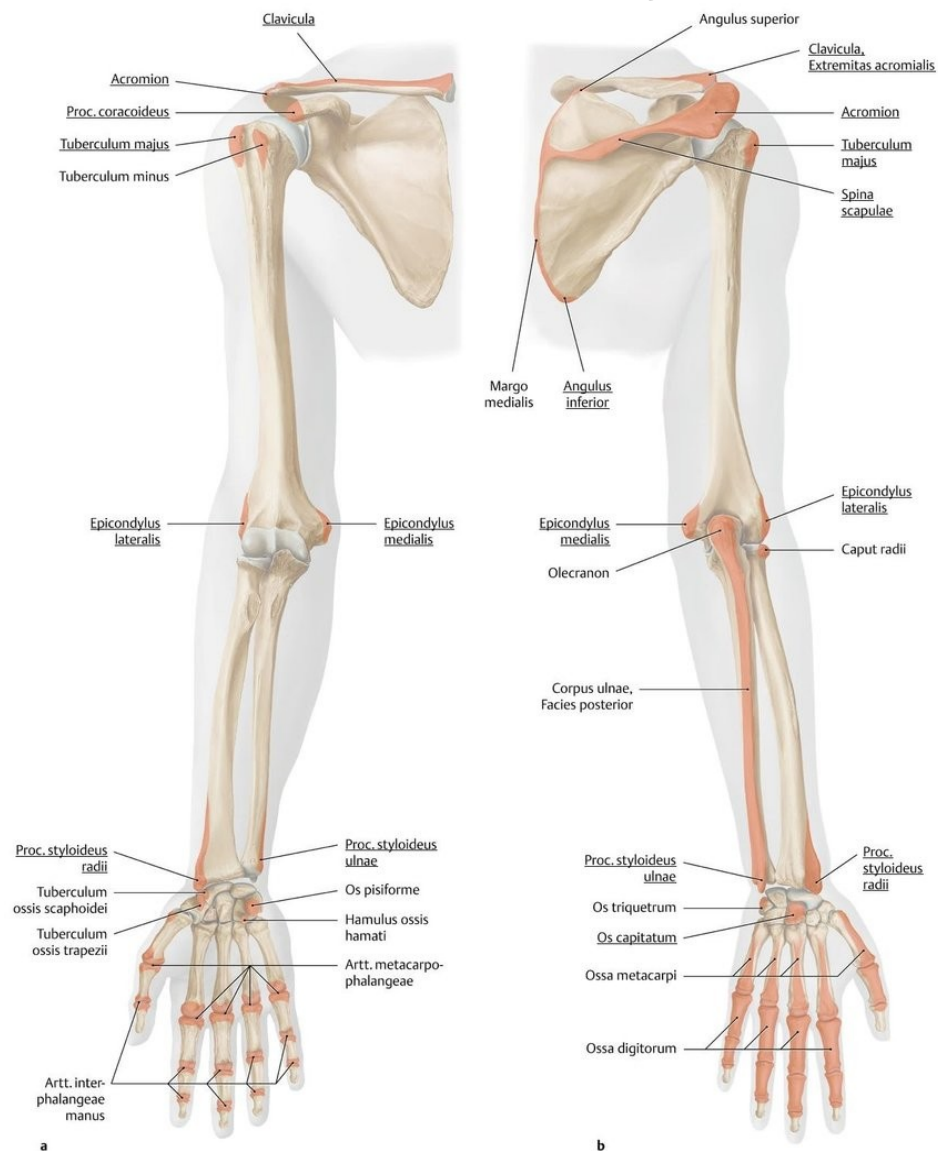
**Bony framework of thorax
(anterior view)**



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

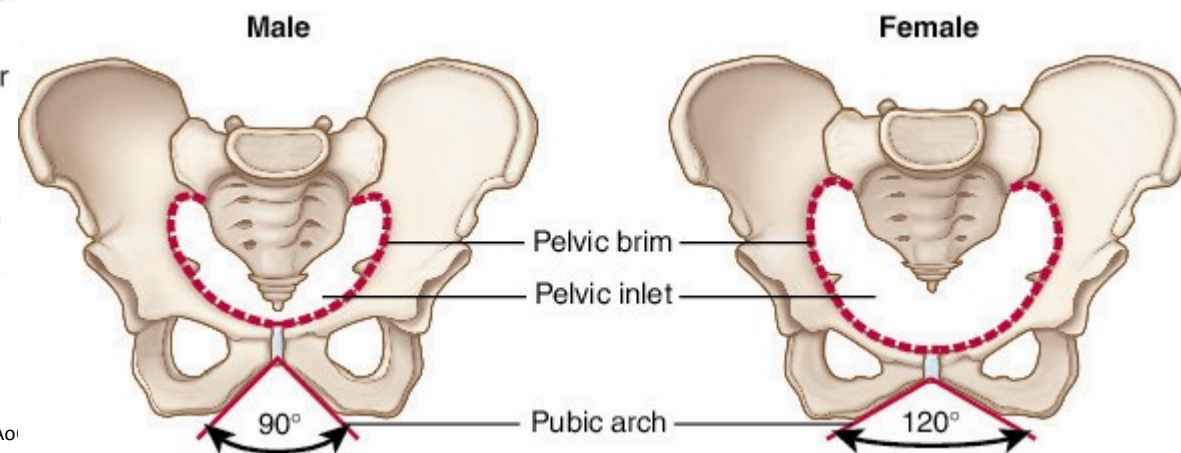
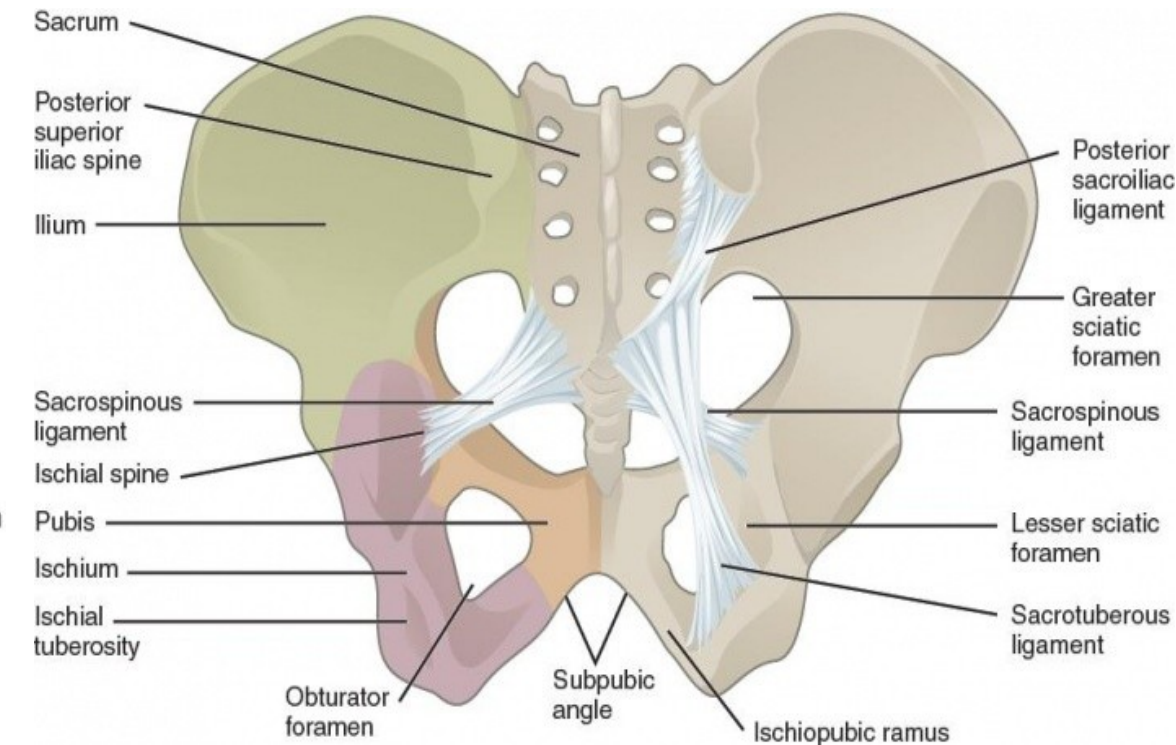
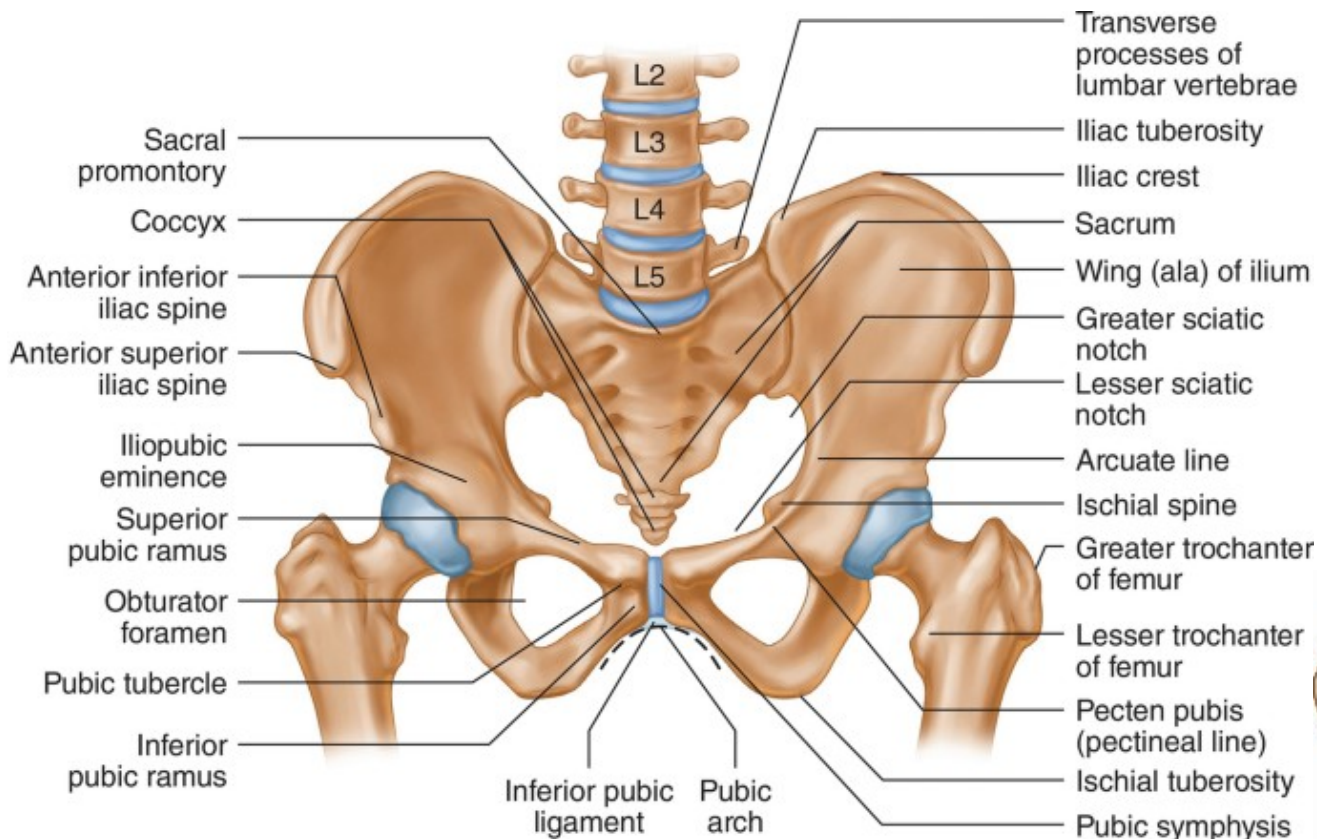
Pletenec horní končetiny

<https://youtu.be/D3GVKjeY1FM>



https://www.google.cz/search?q=extremities+superior&btn=i&ved=ZahUKEwJIOo...ngdzcz7AhhBxQKHekXkArSQ2-CCEqlABIA&oq=extremities+8gs_lcp=CglnpbwCDAQBgMtgIClABCABBATmgIClABCABBATmgIClABCABBATmgIClABCABBATmgIClABCABBATmgIClABCABBATogQLABBDogULIABCBADBoGCAQDbxAeoGGIABCBABBCAAzoECQAQHIDyCFjqK2CCQMwgACABAIB-wGmblskGEfNnIjUGrVAQCgaAQGDmtmd3MtDz6LWtZ8BAQQ&scilient=img&ei=33CY46atSGnkWKhYvVCw&bih=25&biw=628&itrc=pqGF-xHluZui-M

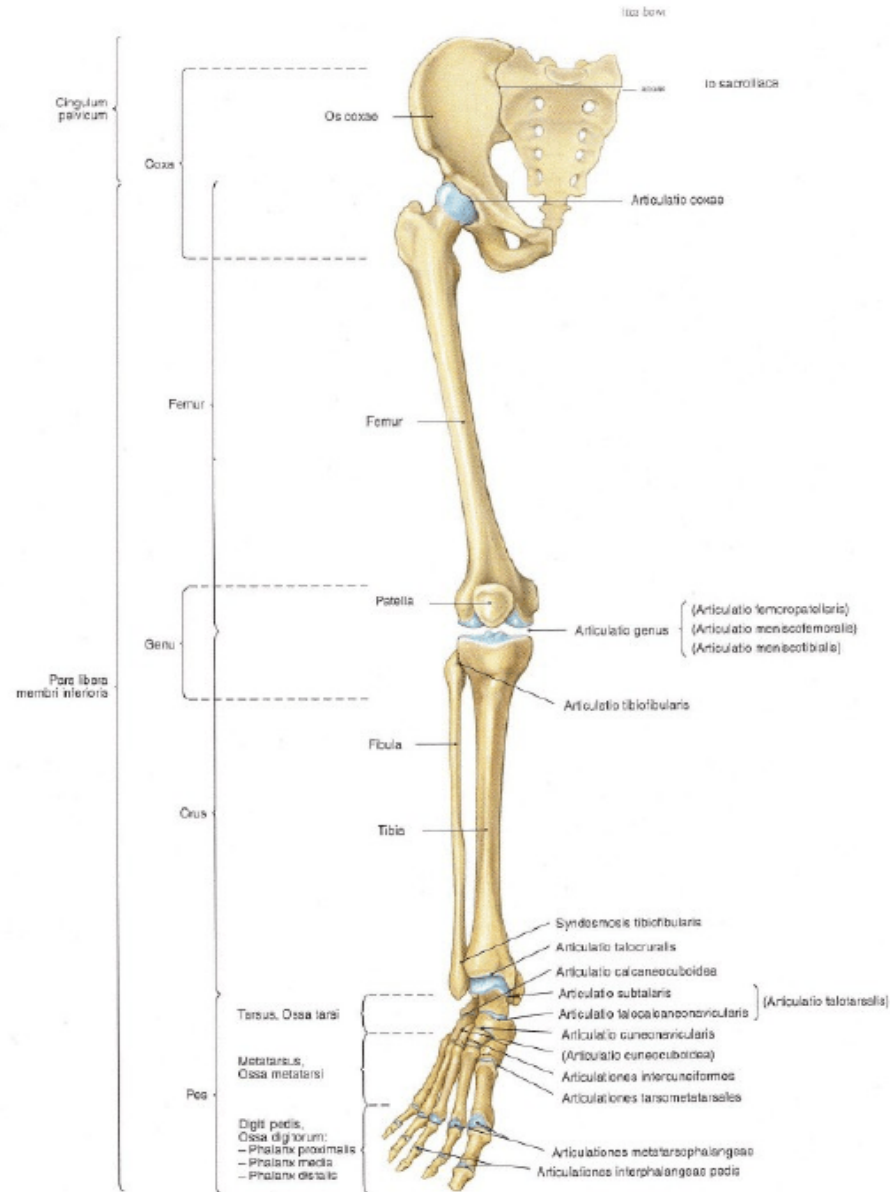
Pánev - pelvis



https://www.google.cz/search?q=pelvis&hl=cs&tbm=isch&source=lnms&sa=X&ved=2ahUKewiqjrHl28z7AhX7iv0HHQ9XAGwQ_AUoAXoECAoiAw&biw=1280&bih=609&dpr=1.5#imgsrc=BlgFcEMwMvHvOM

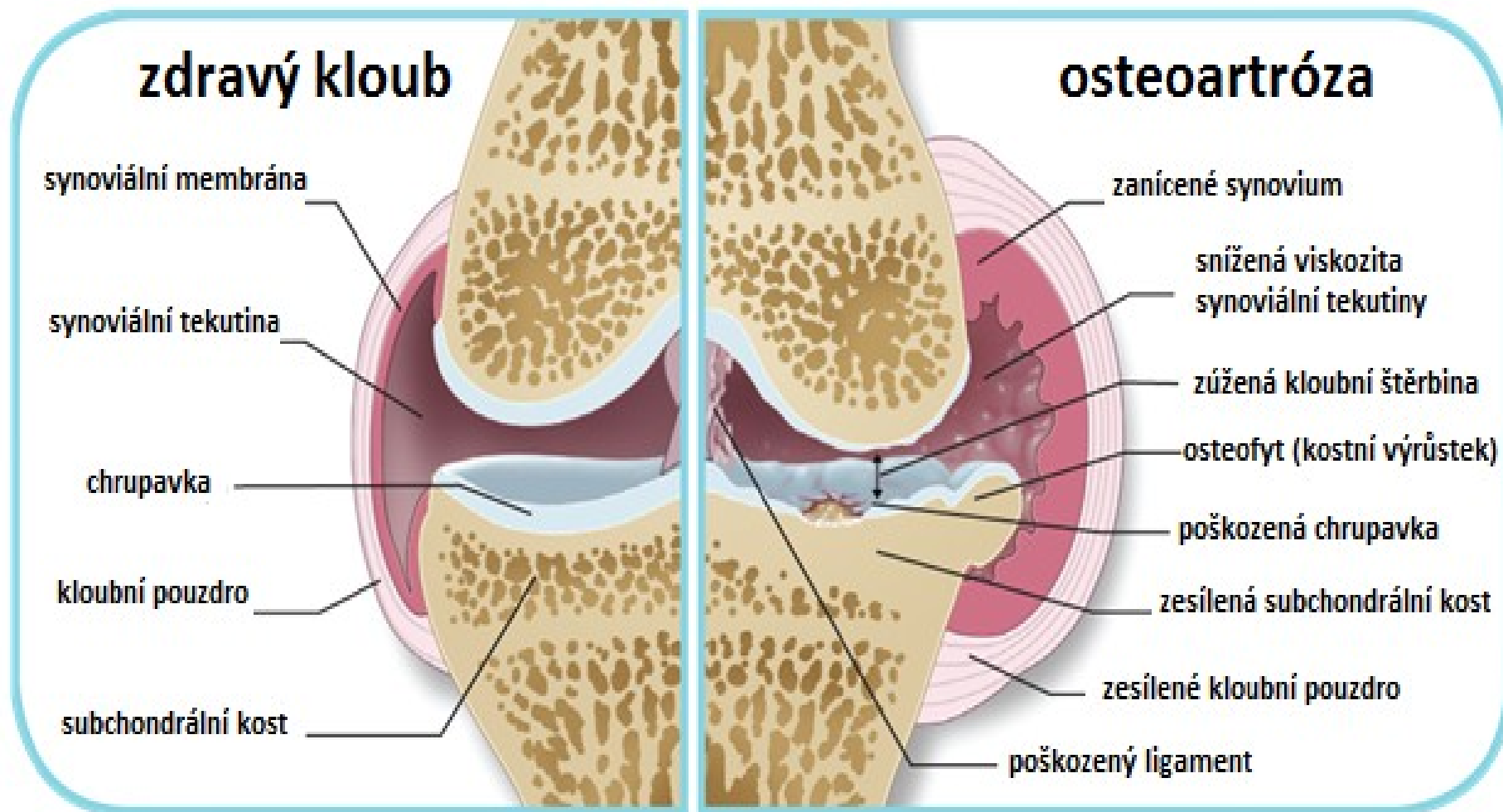
<https://nursing.unboundmedicine.com/nursingcentral/view/Tabers-Dictionary/764020/all/pelvis>

Pletenec dolní končetiny



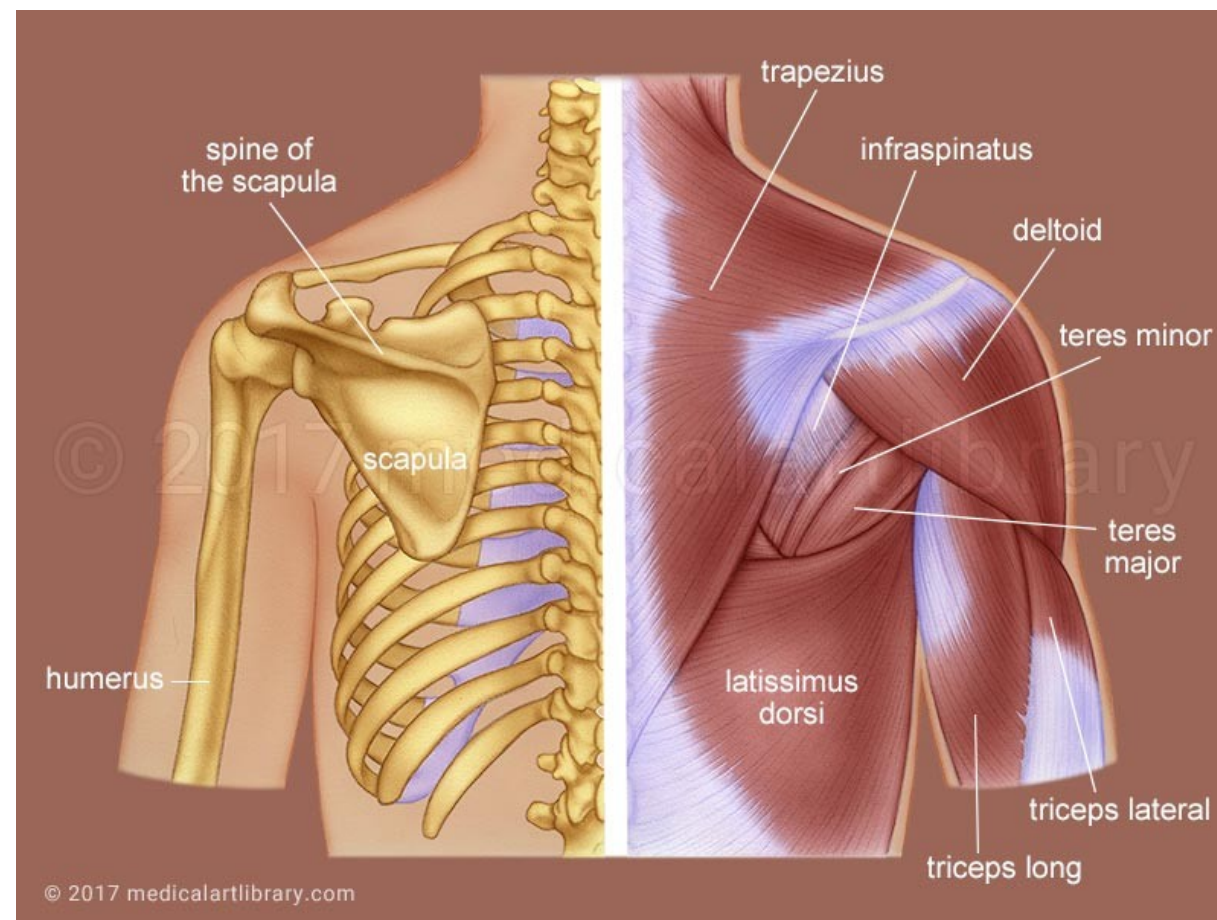
https://www.google.cz/search?q=extremitas+inferior&btm=isch&ved=2ahUKEwI4jotP28Z7AhvFHv0HhNpDSSQZ-cCegQJlABAA&oeq=extremitas+inferior&gs_lcp=gnbwbWQzZlhlCAAOQAOEzICCAAOBRAEbVMvCAGAEuAOHhATMvgIABAEFB4QEZGCAAOHhATMvgIABAEbVMvBggAE4BQEZICCAAOBRAEbVMvBggAEEM6BQEAIEOgIABCABBcXaZoeCAAOHICdEfIWMnDfO2gACAB4AlABrAGlAEWQkGEEOCAXmPGBABAEbVMvBggAE4BQEZICCAAOBRAEbVMvBggAEEM6BQEAIEOgIABCABBcXaZoeCAAOHICdEfIWMnDfO2gACAB4AlABrAGlAEWQkGEEOCAXmPGBAKBAaobCZ3cy13aXotAtMnAwEB&client=ing&ei=3uCU_jYk8WM9u8Pue52Aw&bih=609&biw=1280&hl=cs&mgrc=n03v5HkbnRCUVM

Stavba kloubu

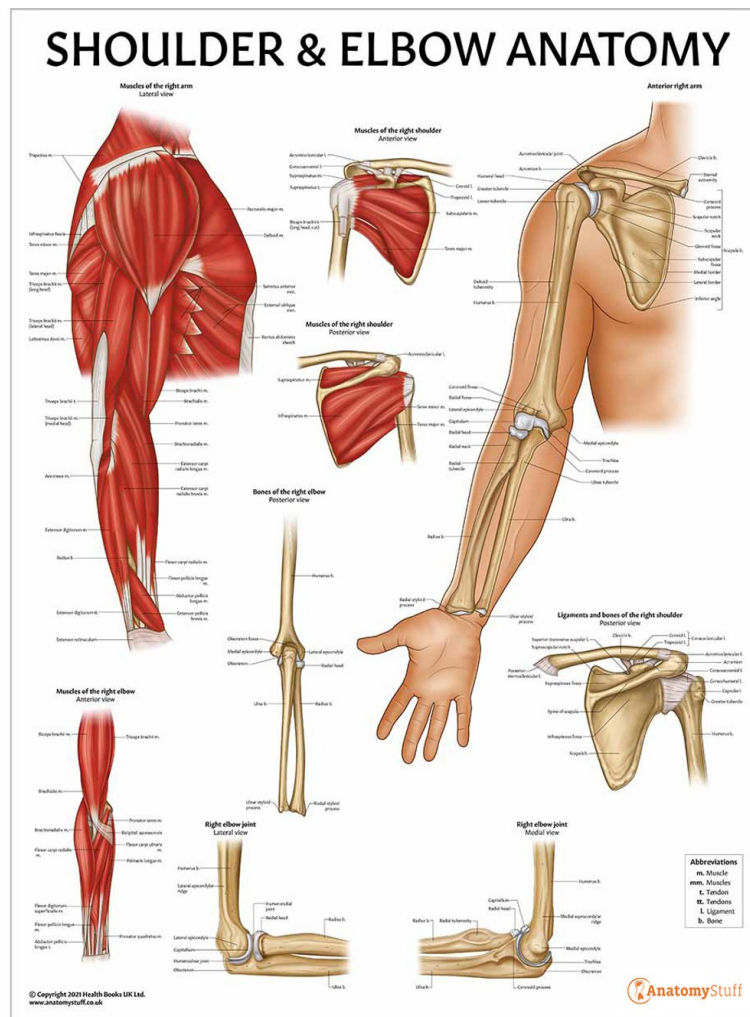


Ramenní kloub

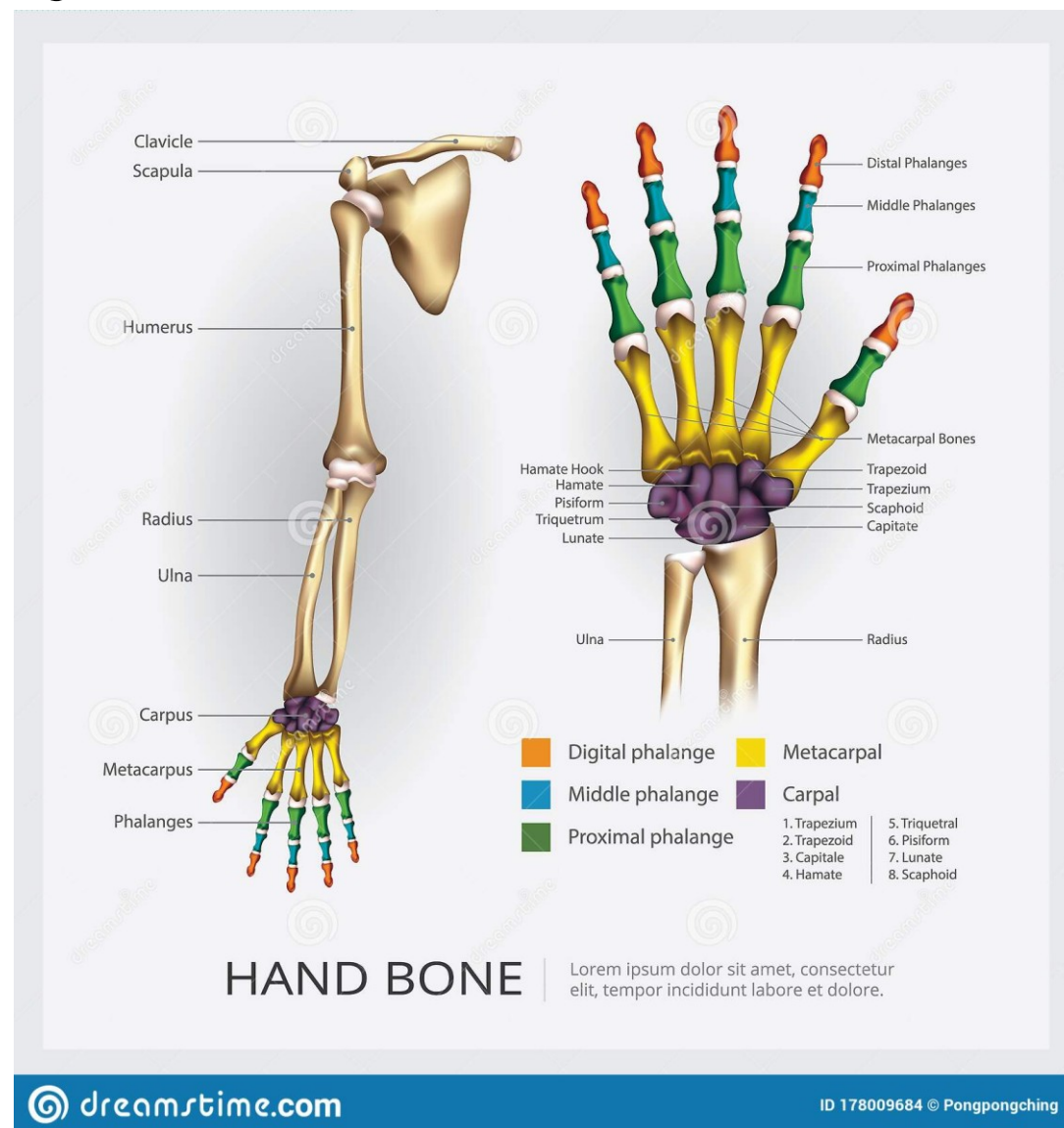
- <https://www.youtube.com/watch?v=D3GVKjeY1FM>



Loketní kloub – articulatio cubiti

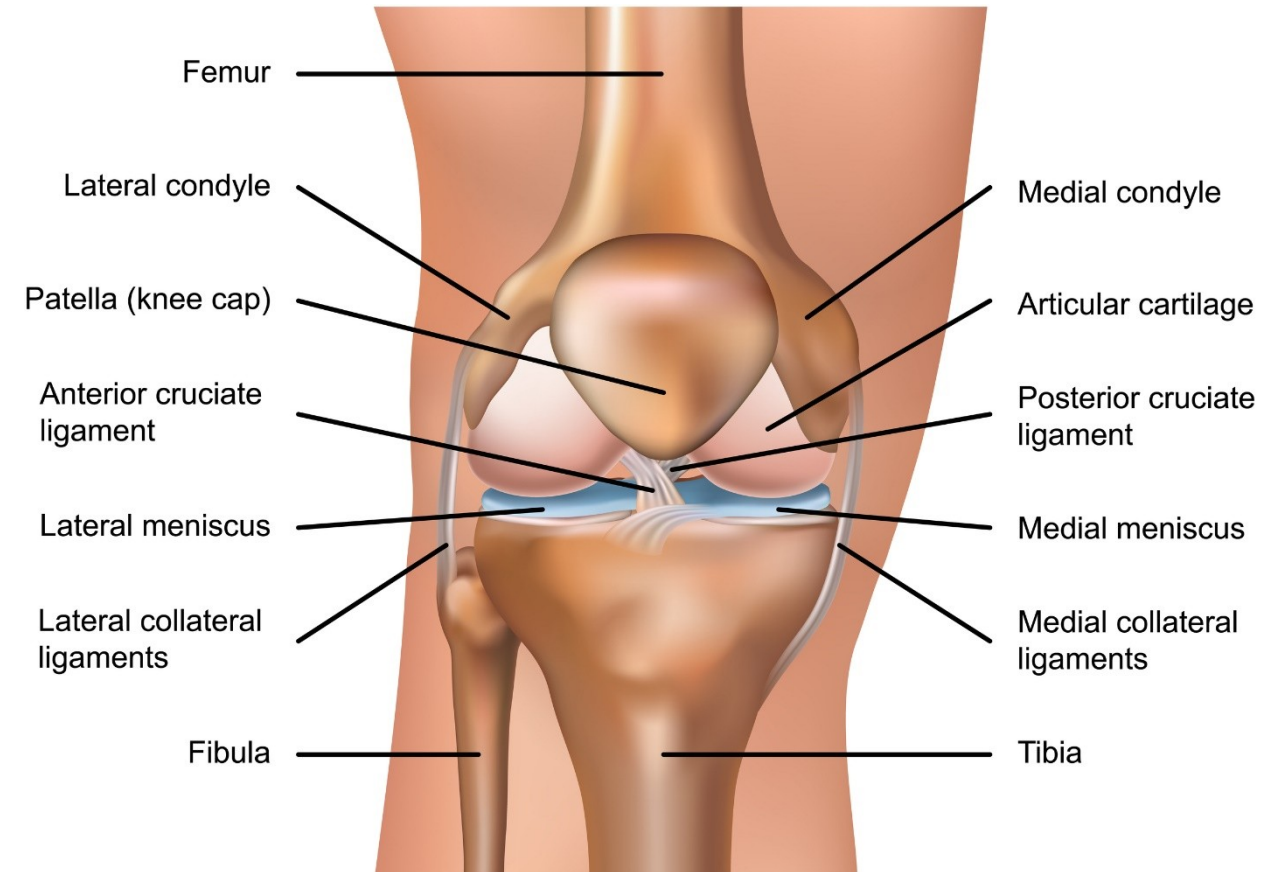


Klouby ruky – articulatio manus

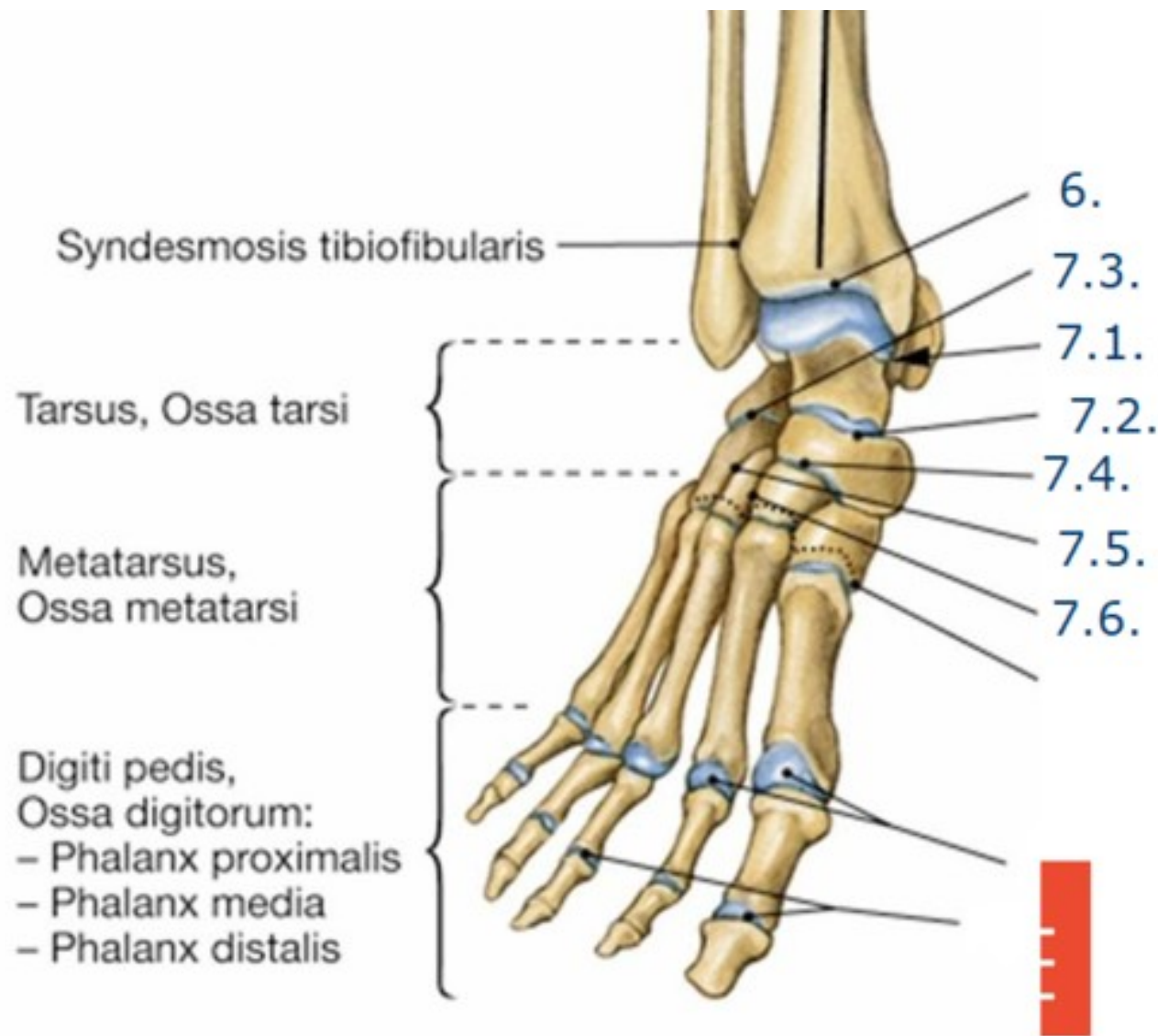


Kolenní kloub

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

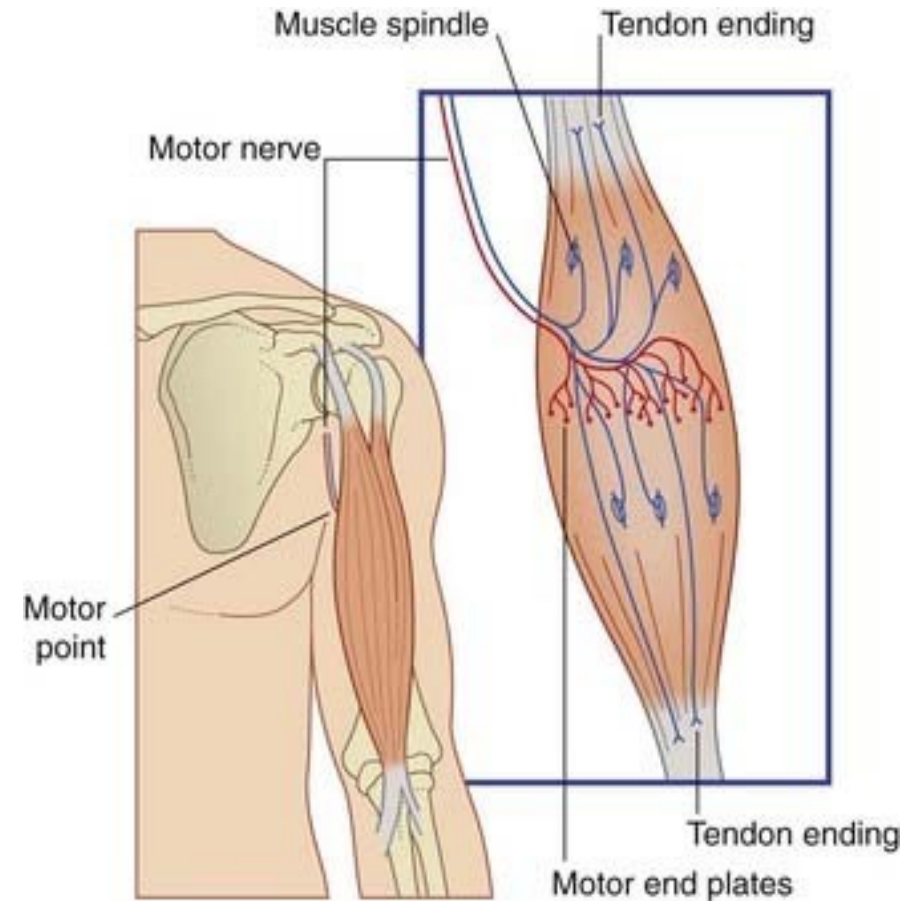
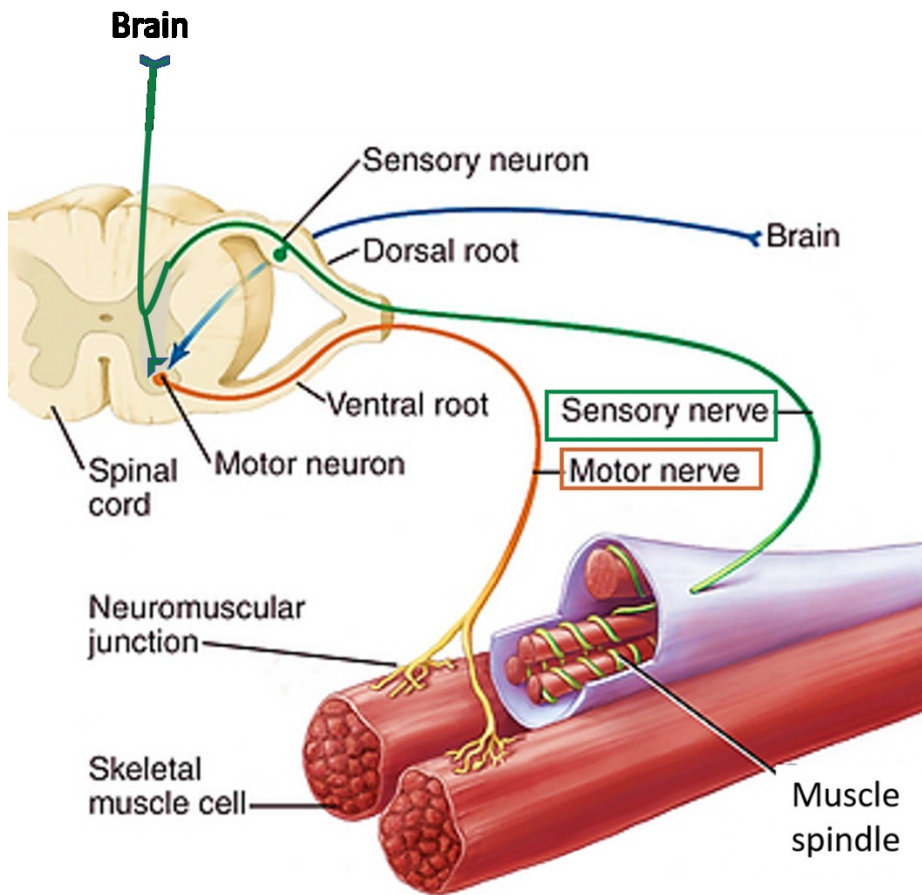


Kloub hlezenní articulatio talocruralis

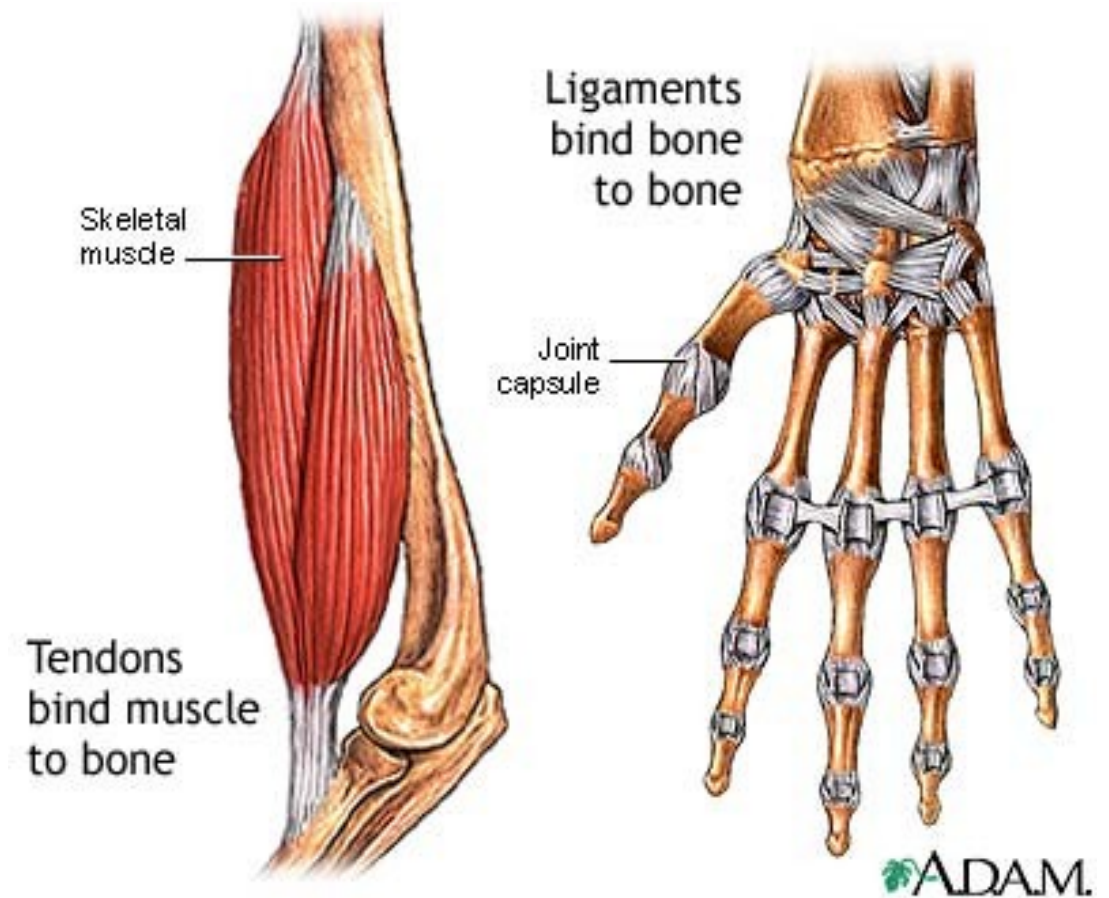
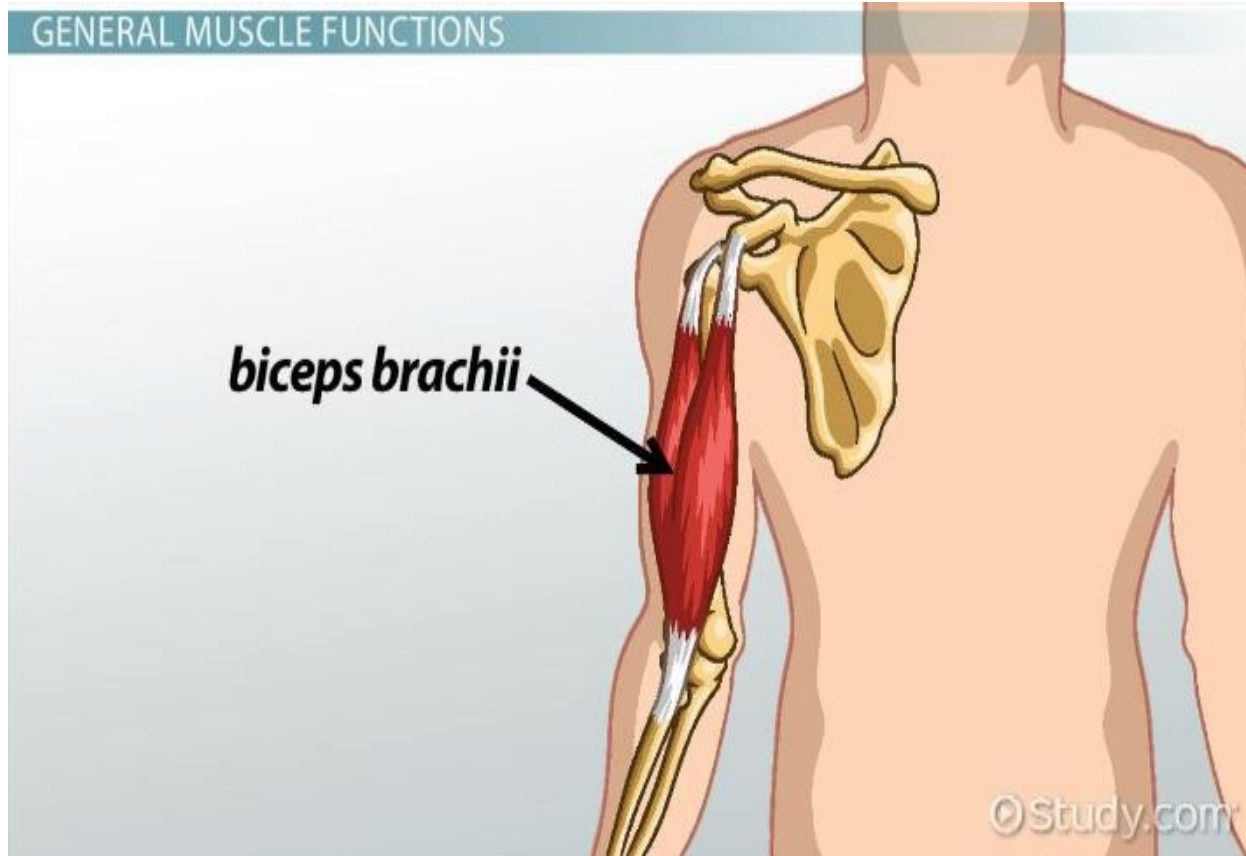


https://www.google.cz/search?q=articulatio+talocruralis+anatomy&btn=Iscr&ved=2ahUKEwC8enKk8z7ArlUyKQKHZMbdnVwQ2-cCEgUjABAA&oeq=articulatio+talocruralis+anatomy&gs_l=Icp=CgprpbWwCQzOeCQAQOzOGCAQOABvAeogCjABCA8BATOgglABAHFE4QZzoiCAAQBR AHEBv6CAGvEA8vBx4UeIMoWfKmYttraABvAHv8vGAGvMvYg8vSiO5AQJXN54xmUgBAKABAAvBC2d3cy13aXotatw1nwAEv&client=img&e=y4DQCvX8KHmImQkwWtT7CwDQ&bih=6098&biw=1280#imgrc=853CwZlCqQfncM

Inervace svalů



Šlachy - tendinum, vazy - ligamenta



https://www.google.cz/search?q=muscles+head&btn=ischn&ved=2ahUKEwiXqxyQ05cz7AhYhUuQKHQKHOUCCHwQz-cCgGQLABAA&oeq=muscles+head&gs_lcp=cgNbdWwCaZlHCAAOQOQEJHCACAOAQOEZHICAAQOAEZILCAAQBRAEBMVCAGAEAUQHnATtMgIBAFEBQAEZILCAAQBRAEBMVCAGAEAUQHnATtMgIBAFEBQAEZILCAAQBRAEBMB6BQDAEIAEOGLIABBDOegLlABCBBCA1DxcVjnoDGcqrGgcAB4BA0BBWA4e8XkGEUNNC4LjluYm54LUJuMZgBAKAABAoBc2d3cy3x0taotWlnwaEFB&scitnt=img&ei=AowCVSehnvdtTlkGWfHkDgBw&wh=60&biw=1280#imgrc=FUPZWZTXFTFY_M

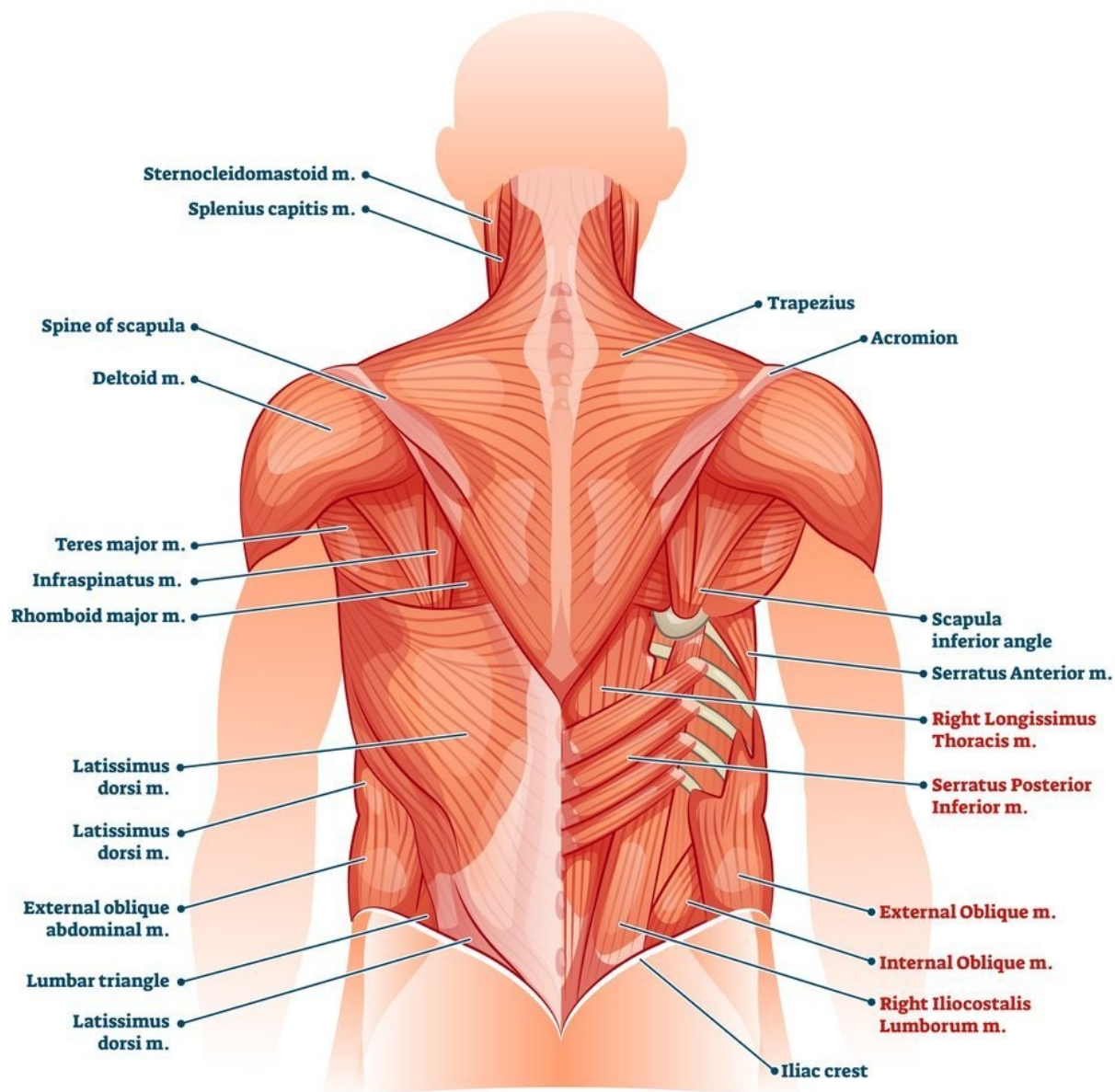


[illegible]

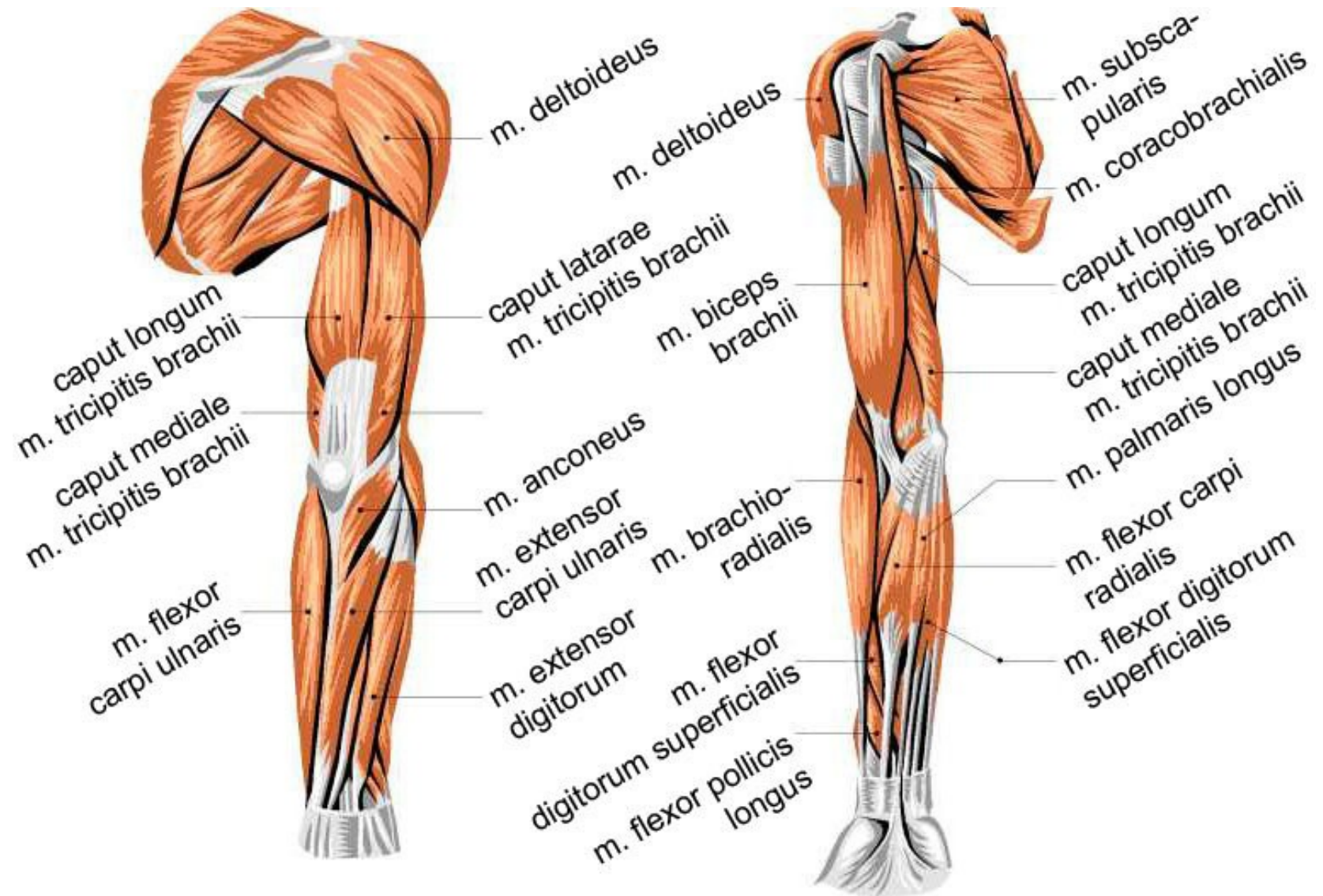
Copyright © 2013 Wolters Kluwer Health | Lippincott Williams & Wilkins

Zádové svaly

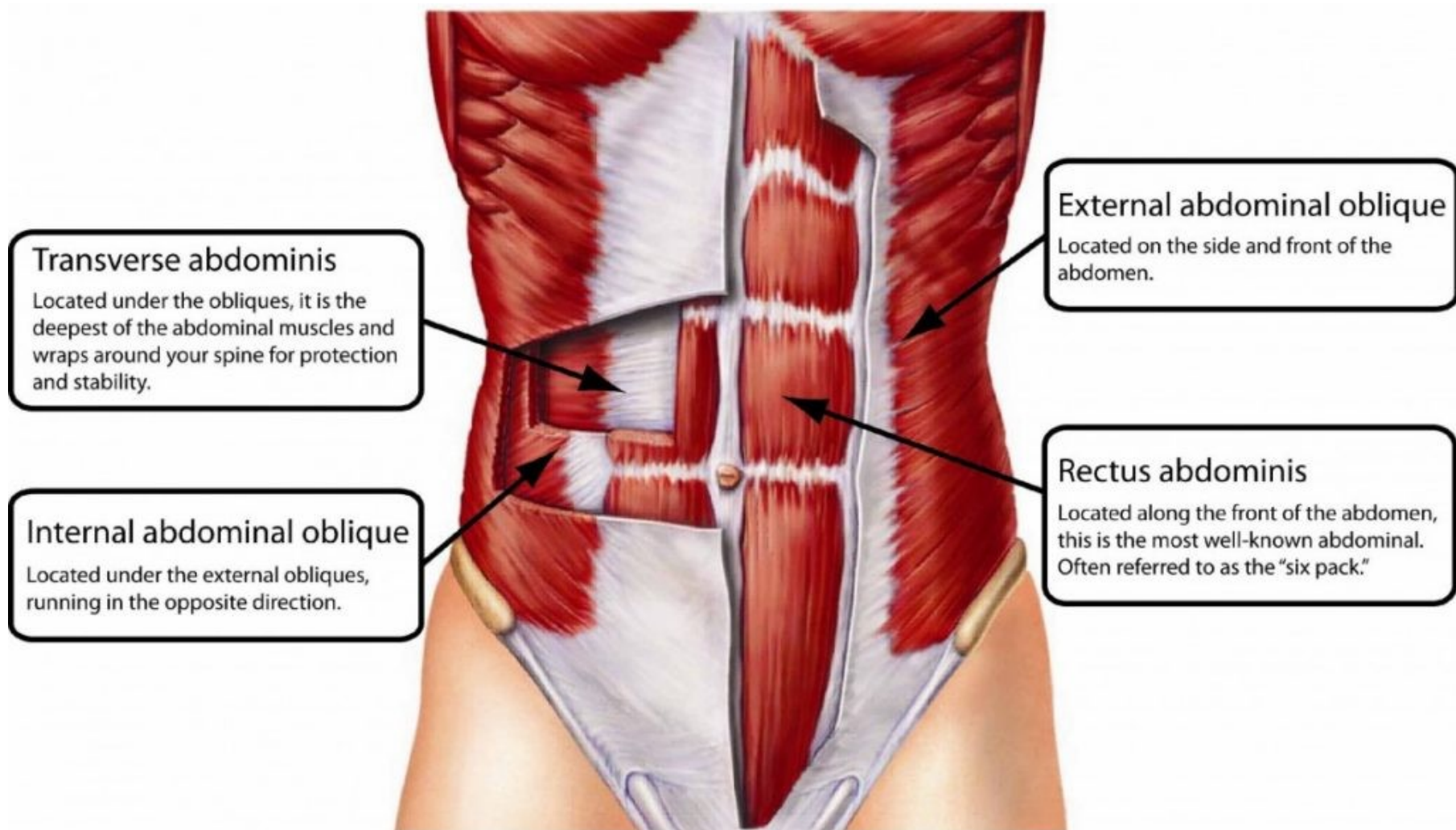
LOWER BACK MUSCLES

[illegible]

Svaly horní končetiny

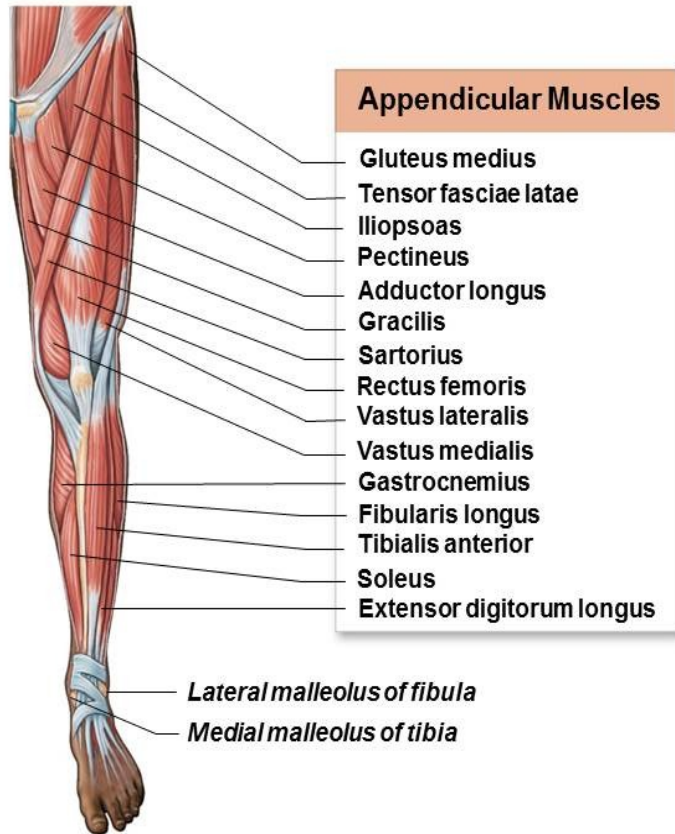


Svaly břicha



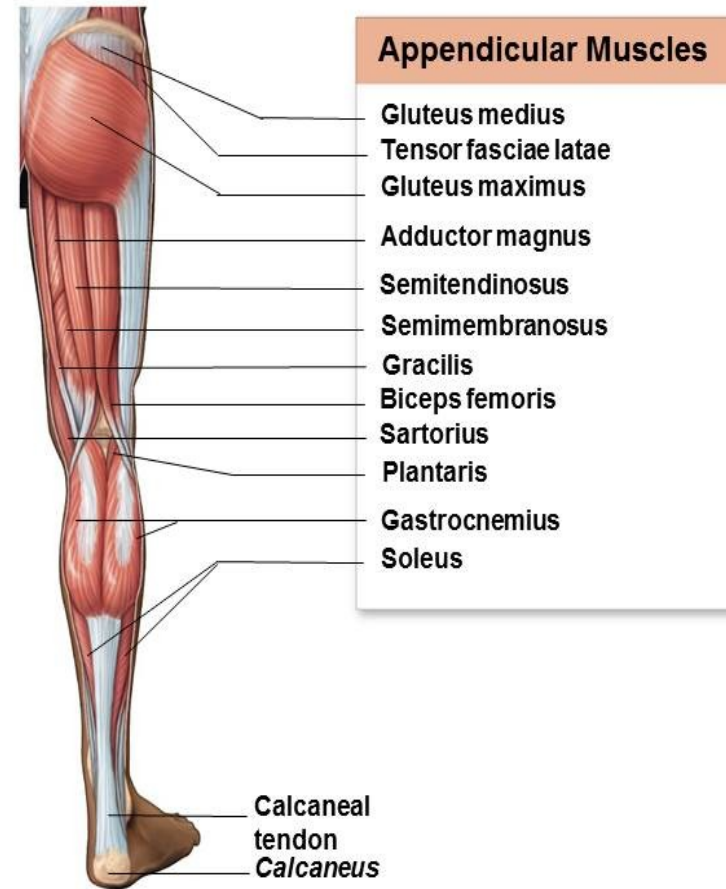
Svaly dolní končetiny

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)



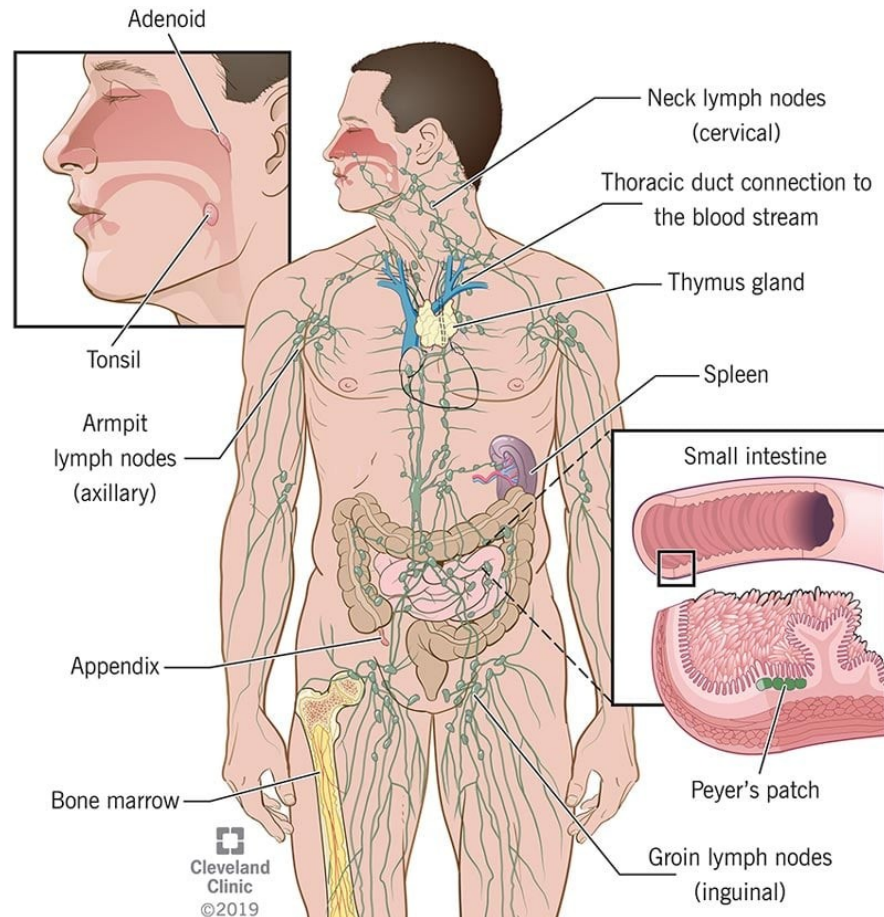
b A posterior view
ATLAS: Plates 1b; 40a,b

Krev – tekutá tkáň

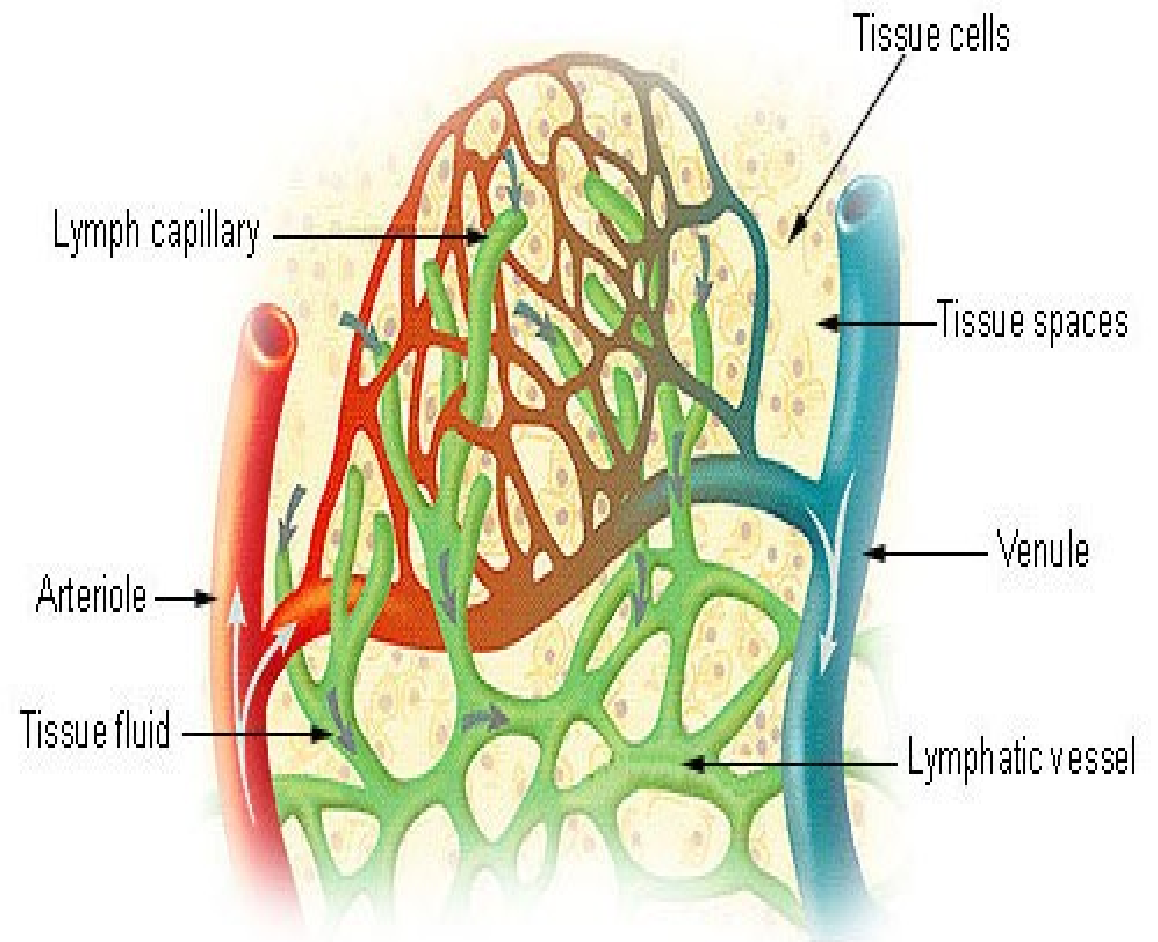
<https://www.youtube.com/watch?v=PK5YbDZODYk>
Hematopoeza

- <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

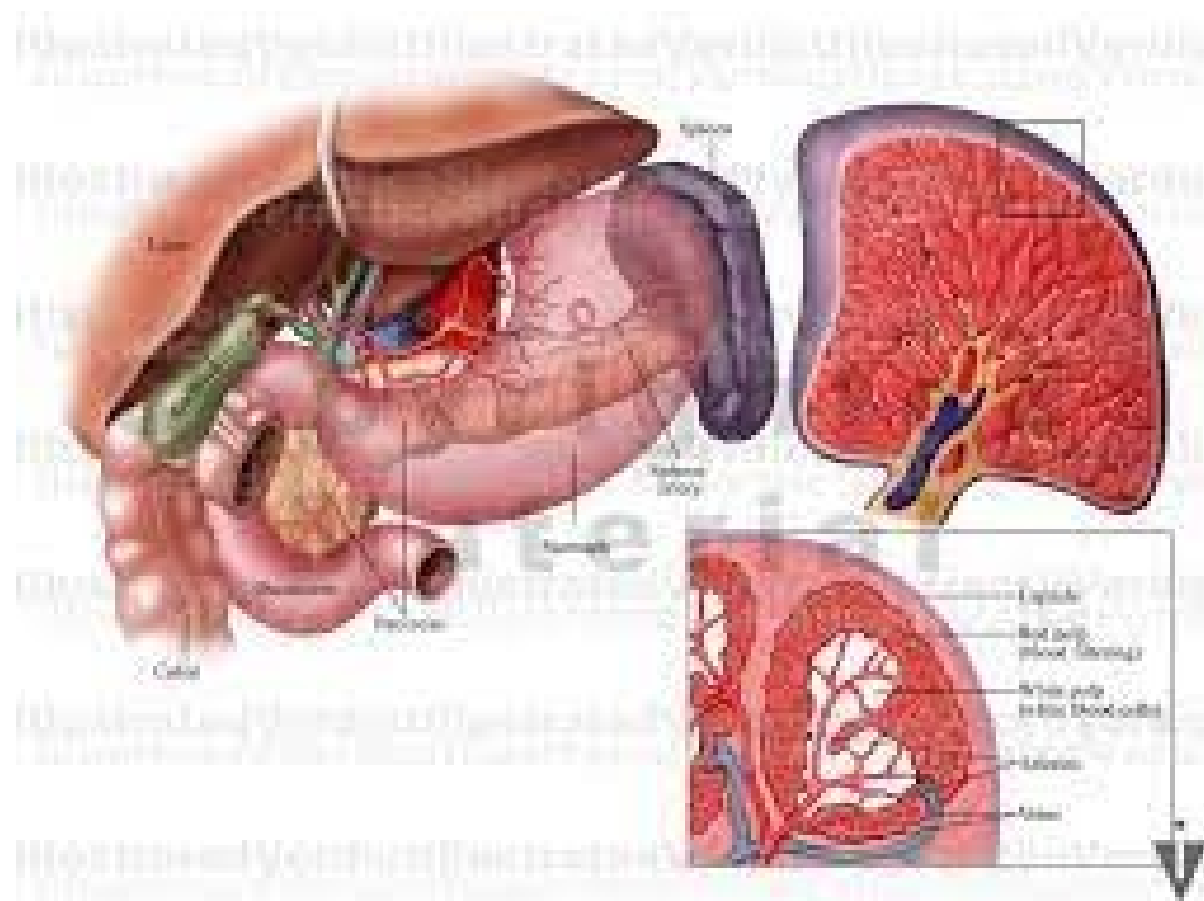
Lymfatický systém



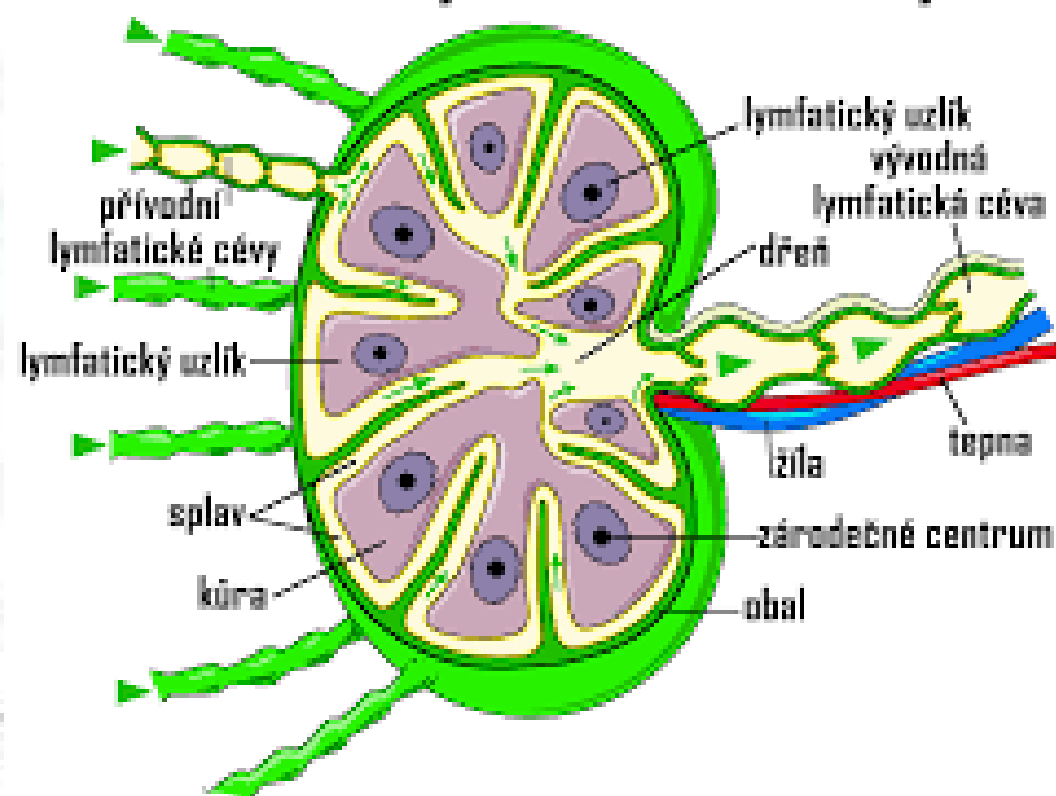
Lymph Capillaries in the Tissue Spaces



Slezina, *lat. lien, řec. splen*



Stavba lymfatické uzliny



Lymfatický systém

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

Dýchací systém

Respiratory System

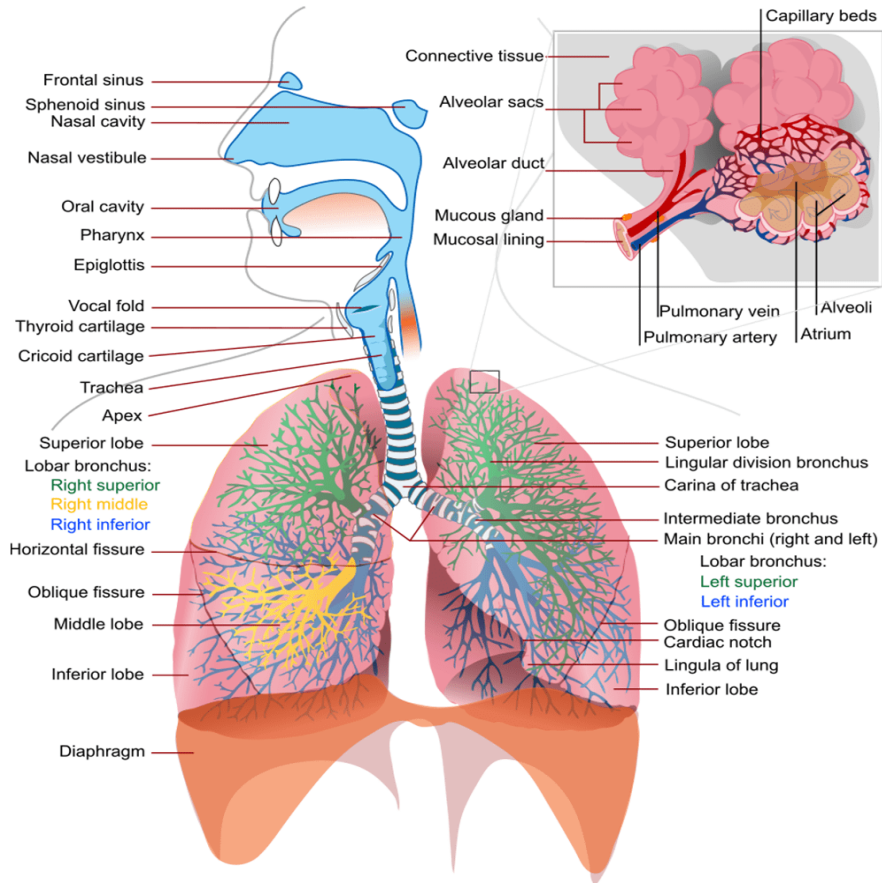
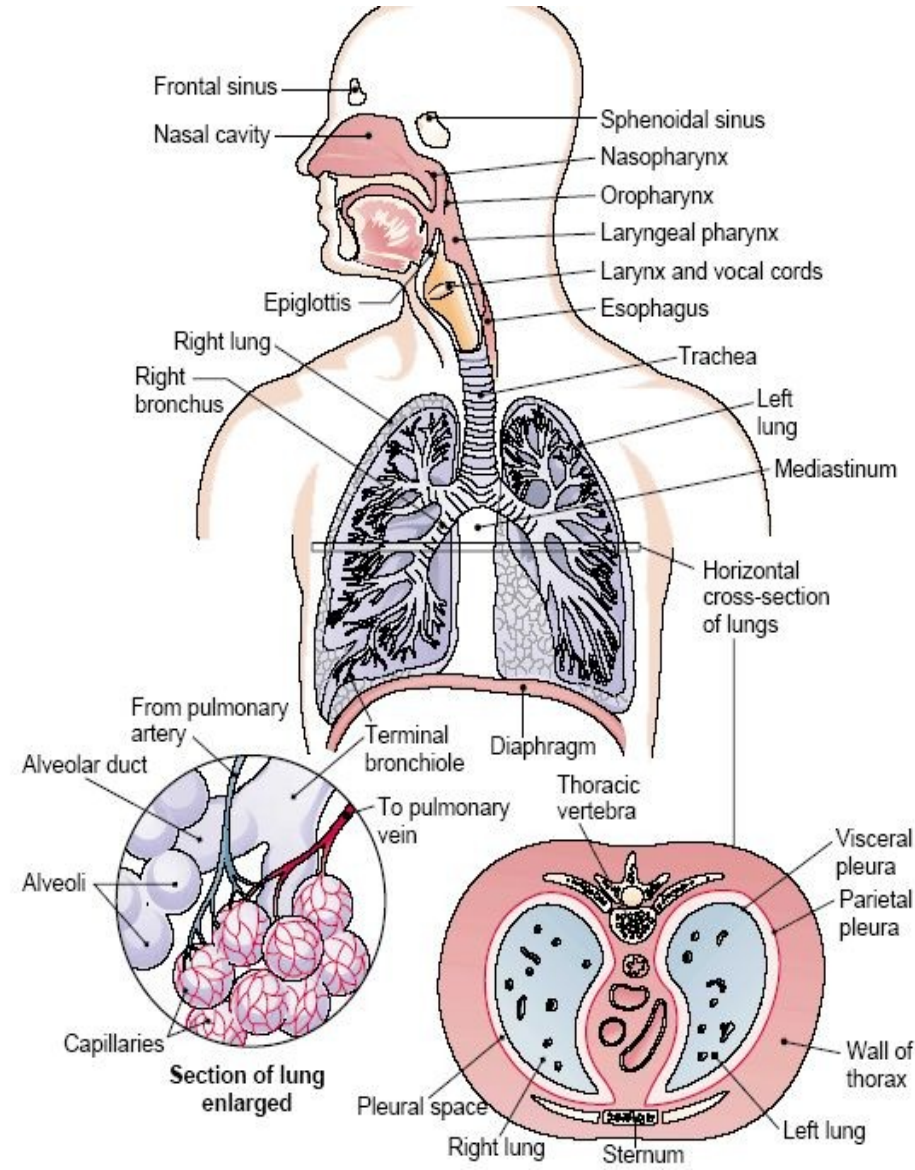


image via: wikipedia.com

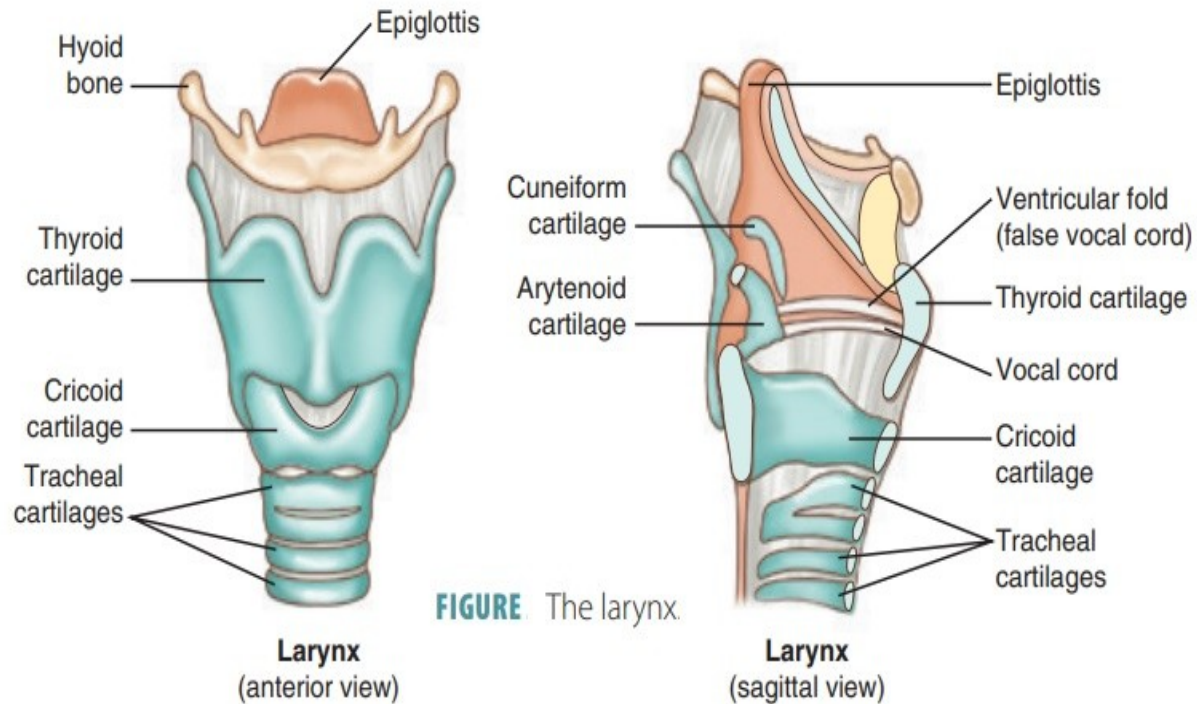


<https://nurseslabs.com/respiratory-system/>

[illegible]

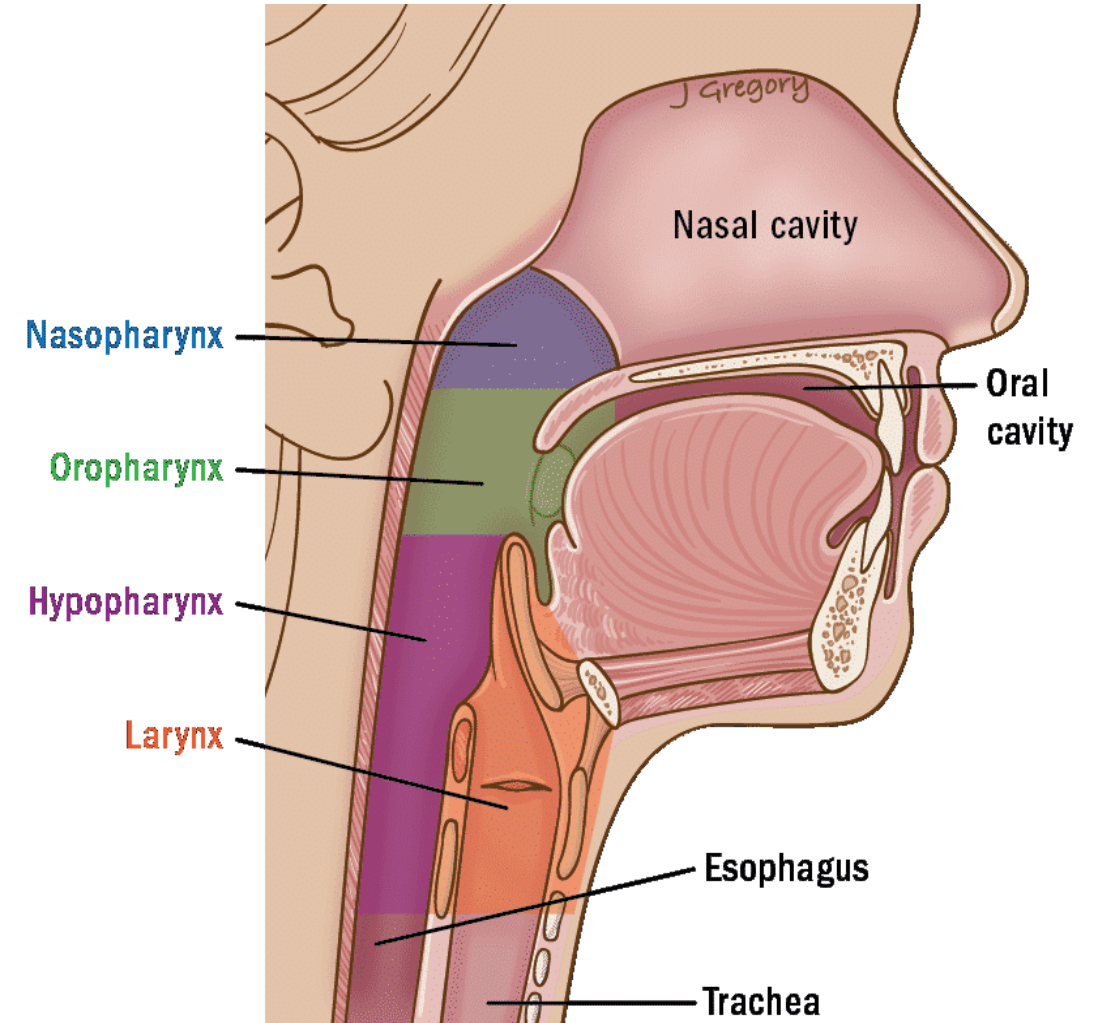
Hrtan, lat. Larynx

<https://youtu.be/b89RSYCaUBo>



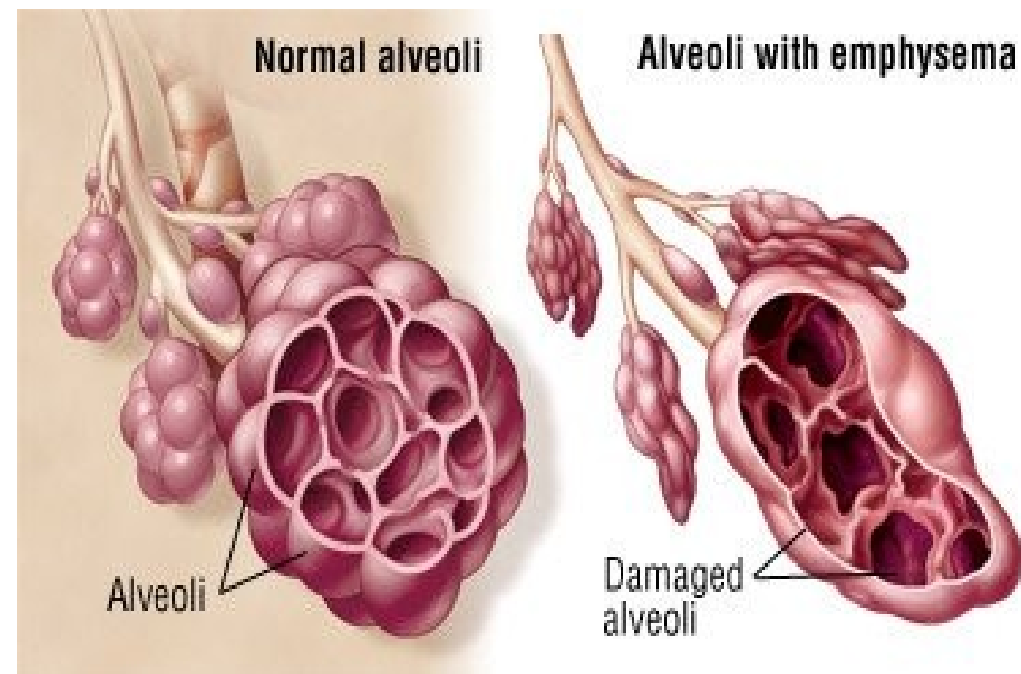
<https://healthjade.com/what-is-the-larynx/>

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

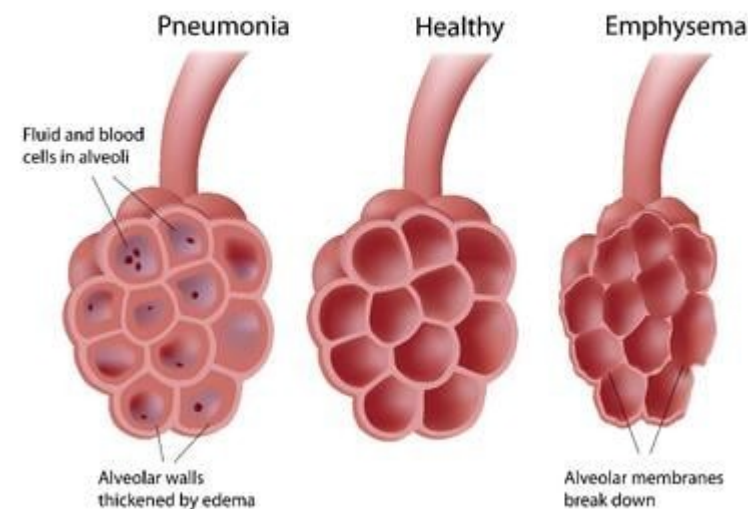


Respirační systém

- <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#imgsrc=ex-siDfAWuS7sM&imgdii=hXLB_vm-q3gXSM



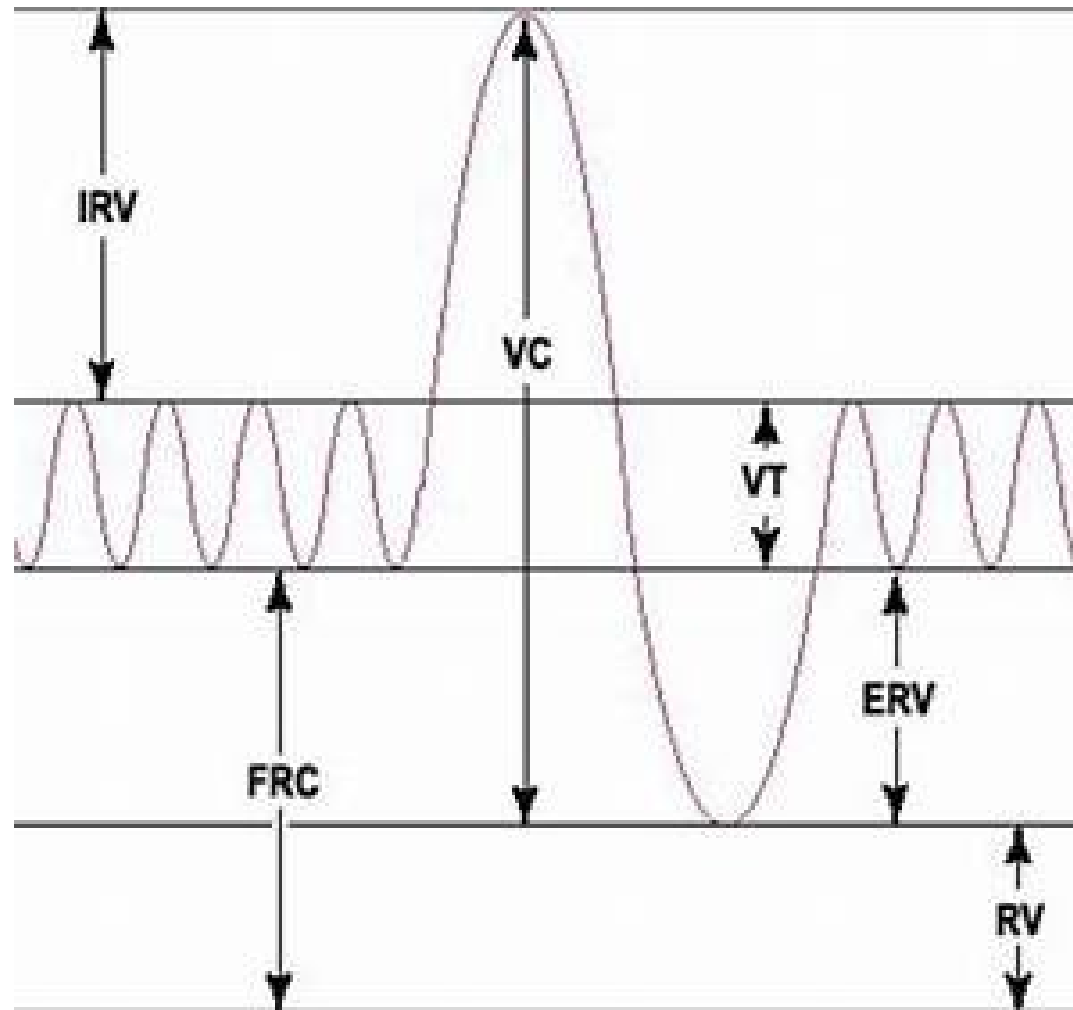
Alveoli Changes in Lung Diseases



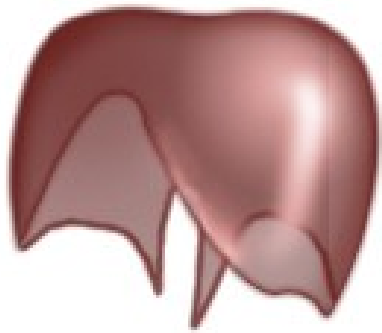
Pneumonie

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

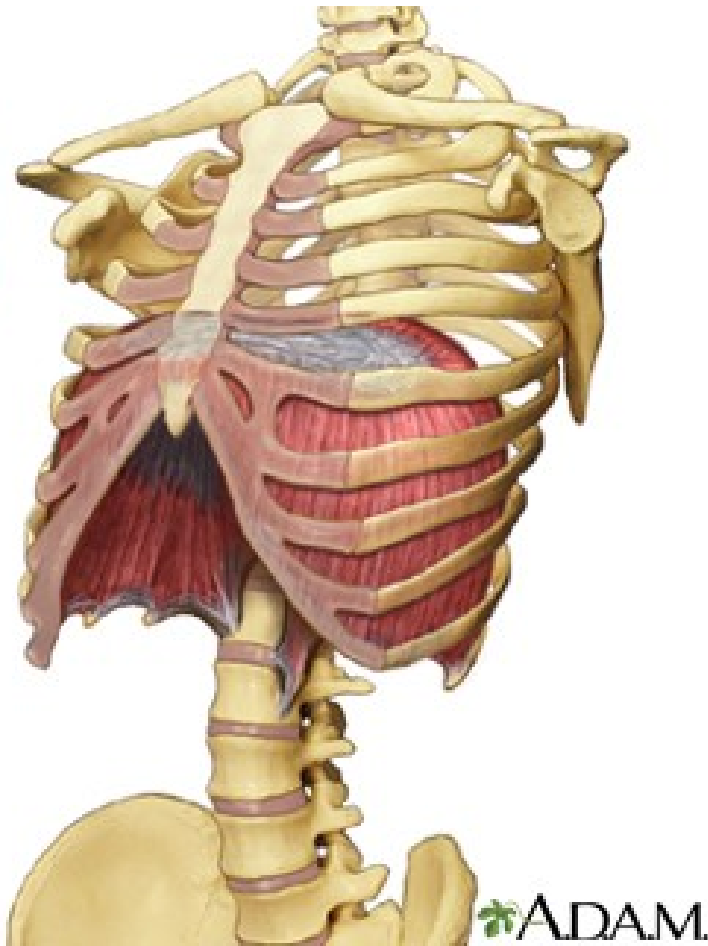
Spirometrie



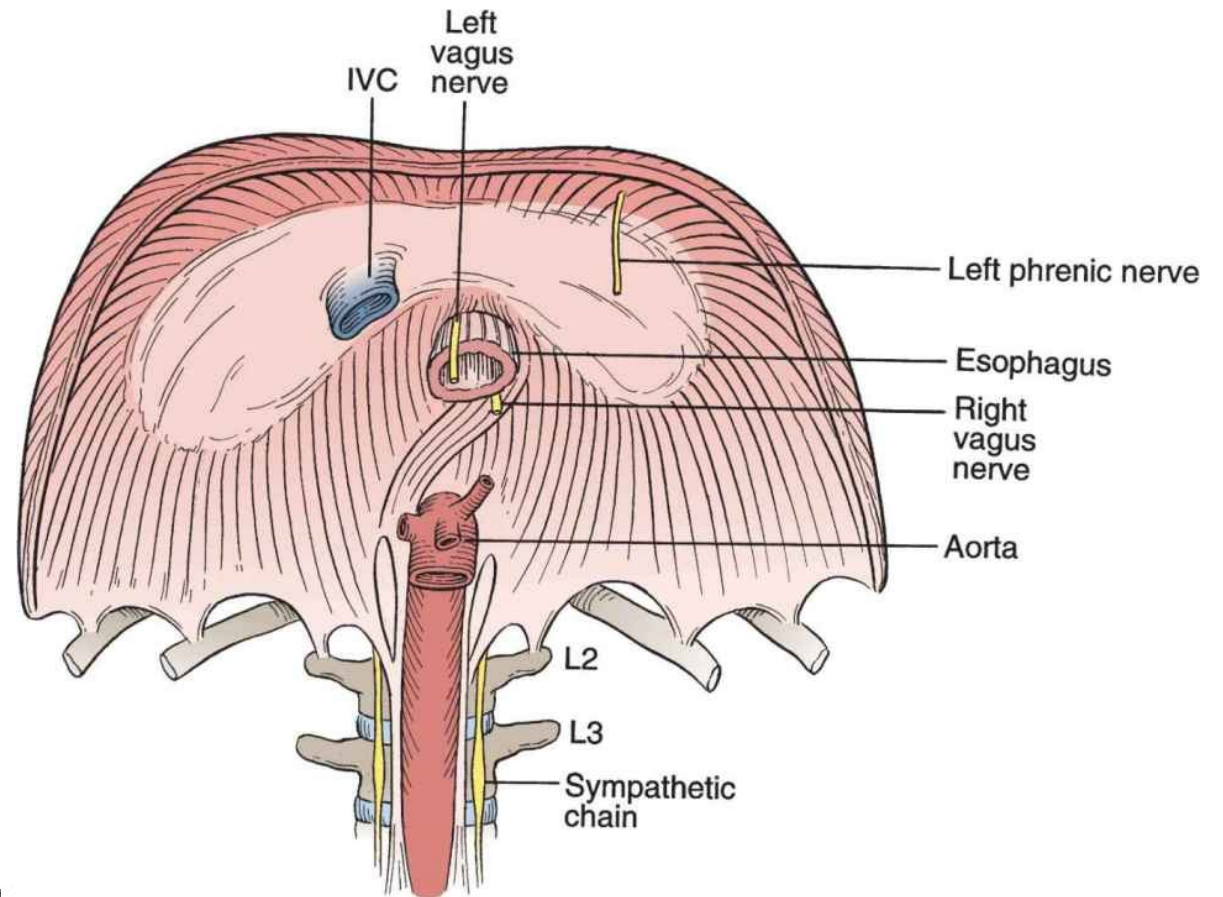
Bránice, *lat. diaphragma*



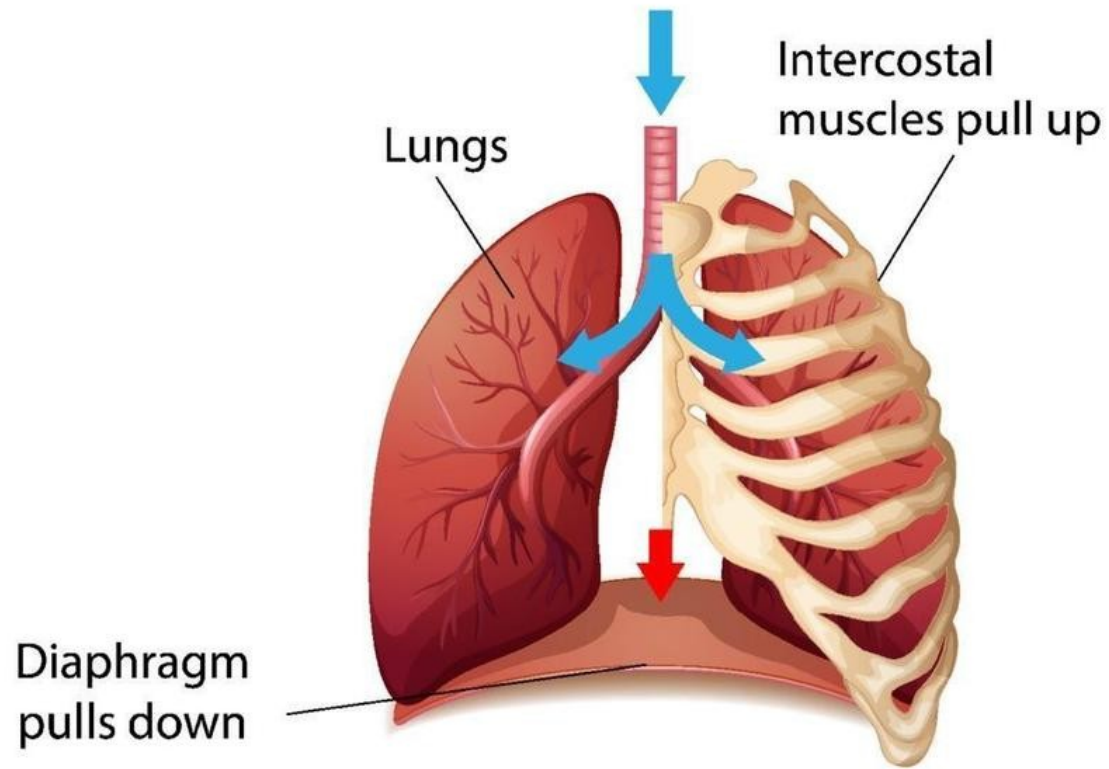
The diaphragm
is shaped
like a parachute



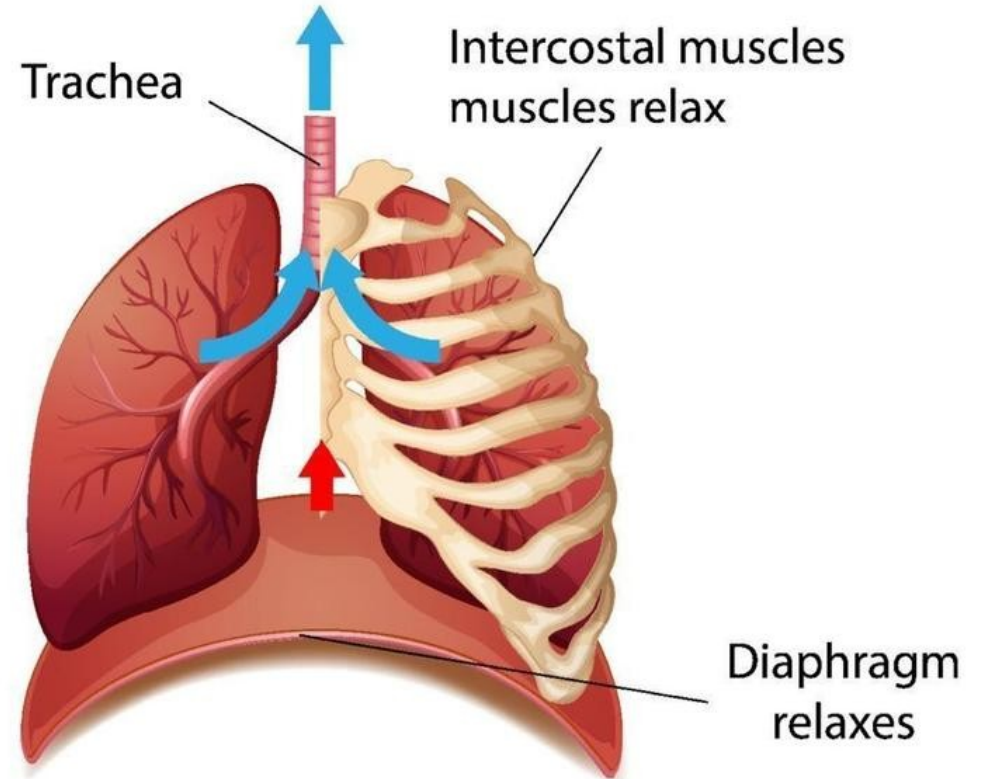
ADAM.



THE DIAPHRAGM FUNCTIONS IN BREATHING



Inhalation



Exhalation

Srdce, oběh

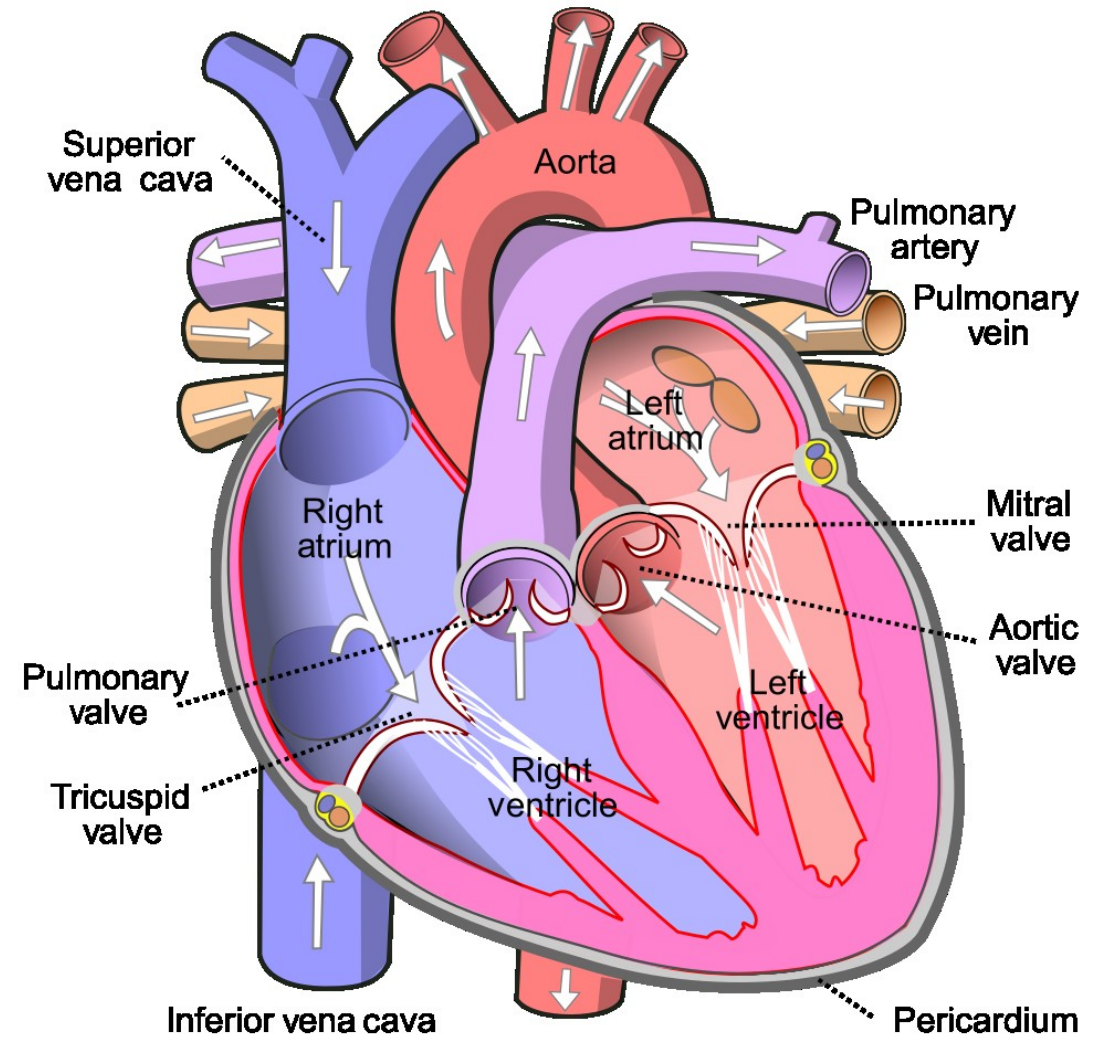
- <https://www.youtube.com/watch?v=GMBSU-2GK3E>
- <https://www.youtube.com/watch?v=46u2ON6d4mg>
- <https://www.youtube.com/watch?v=CWFyxn0qDEU>
- https://youtu.be/_qmNCJxpsr0

Koronární artérie

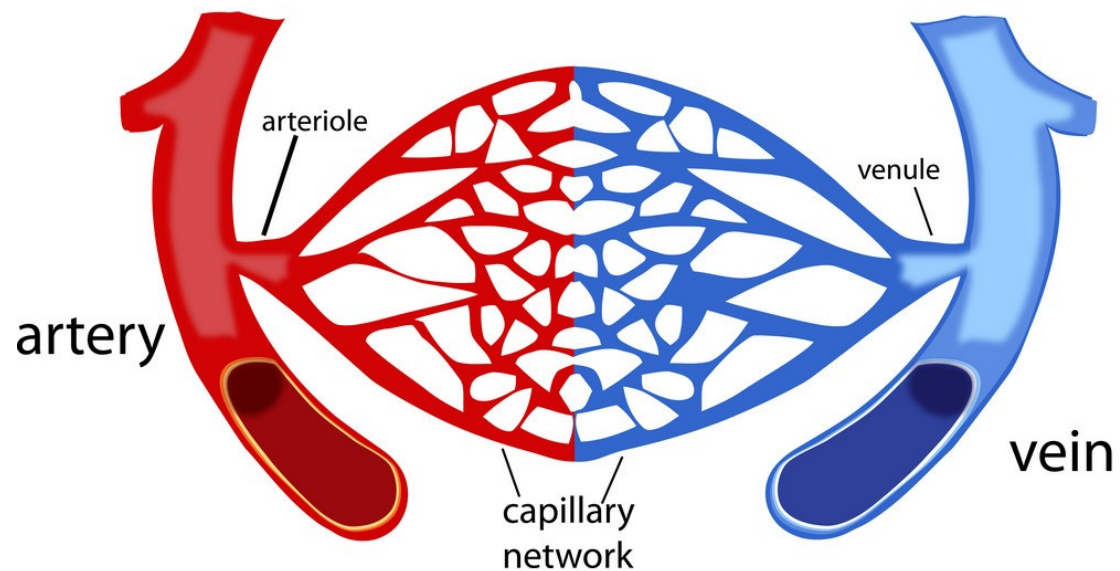
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IM

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



Krevní oběh

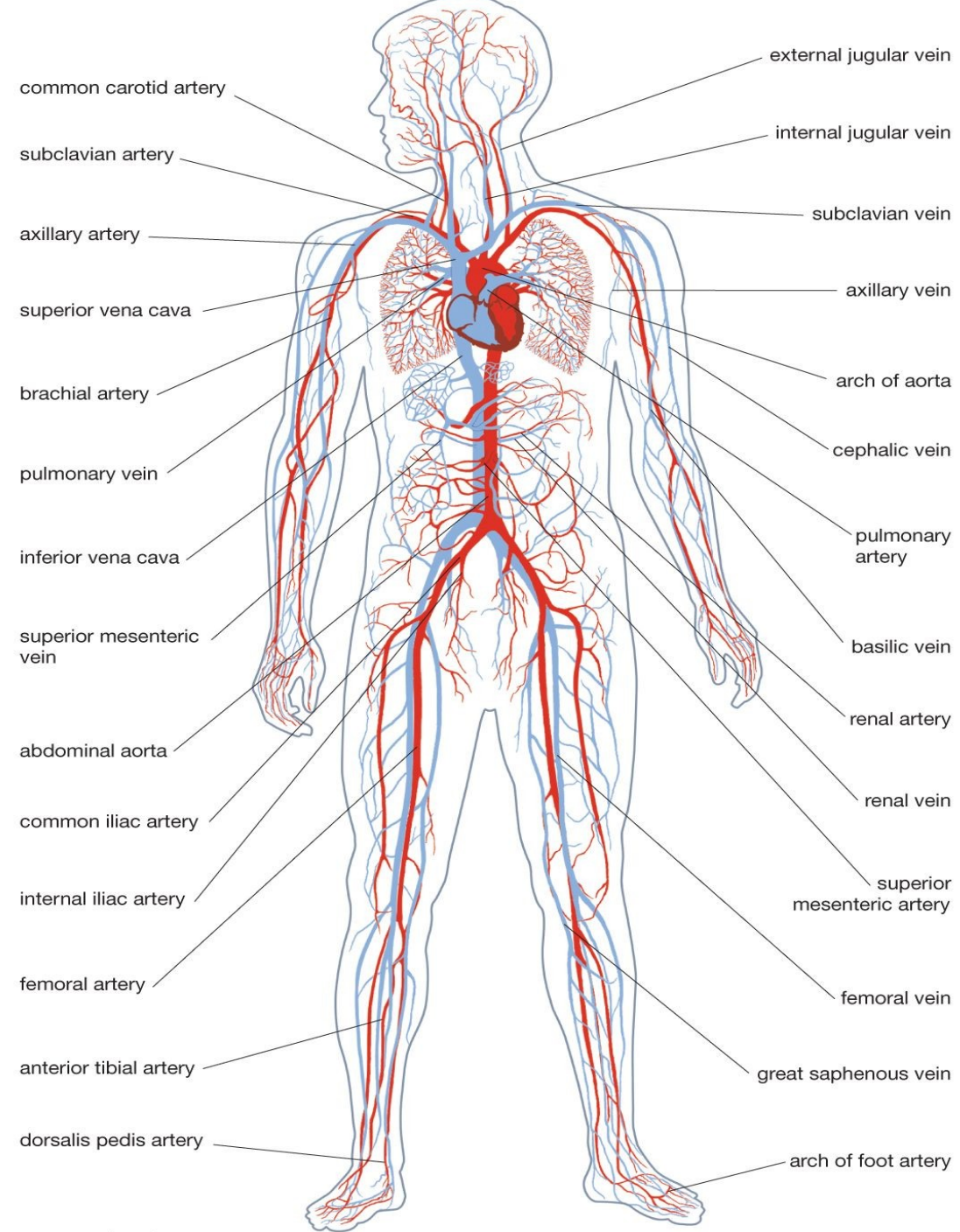


VectorStock®

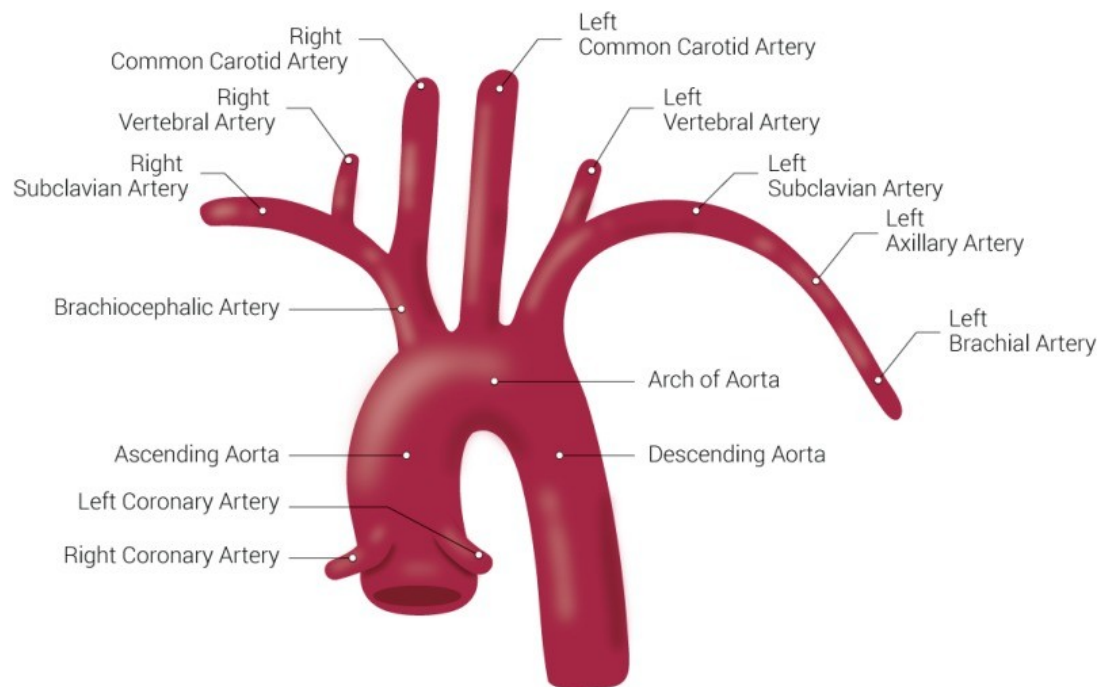
VectorStock.com/26868493

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#imgsrc=WX2cmWZbd_rVRM&imgdii=jlgVhH3P1WEwoM

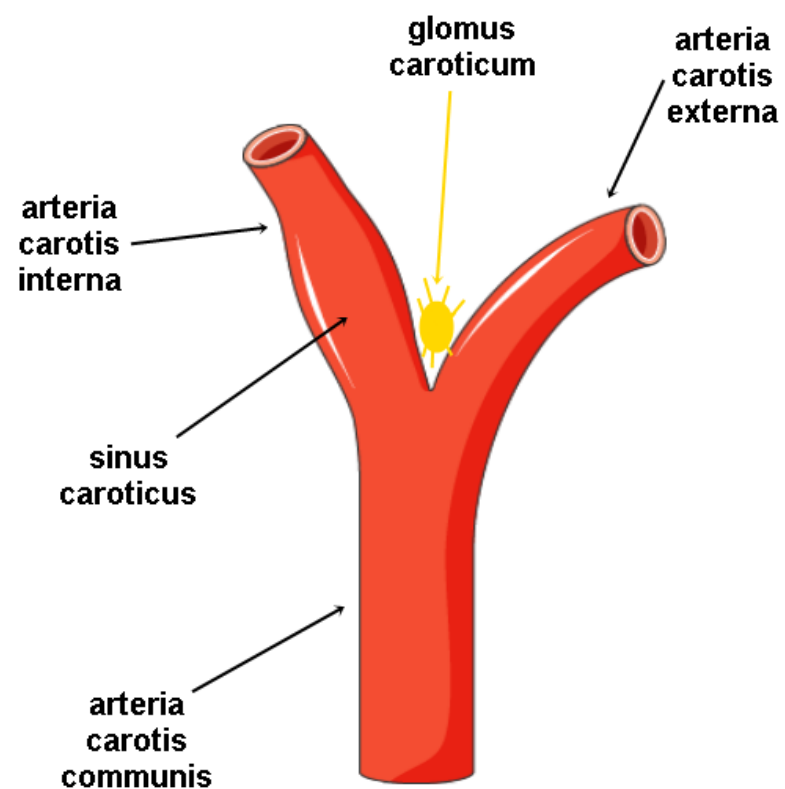
- <https://www.google.com/search?q=kardiovscular+system&tbm=isch&ved=2ahUKEwij6b-J88z7AhWMMyAIHHRToArEQ2-cCegQIABAA&oq=kardio>



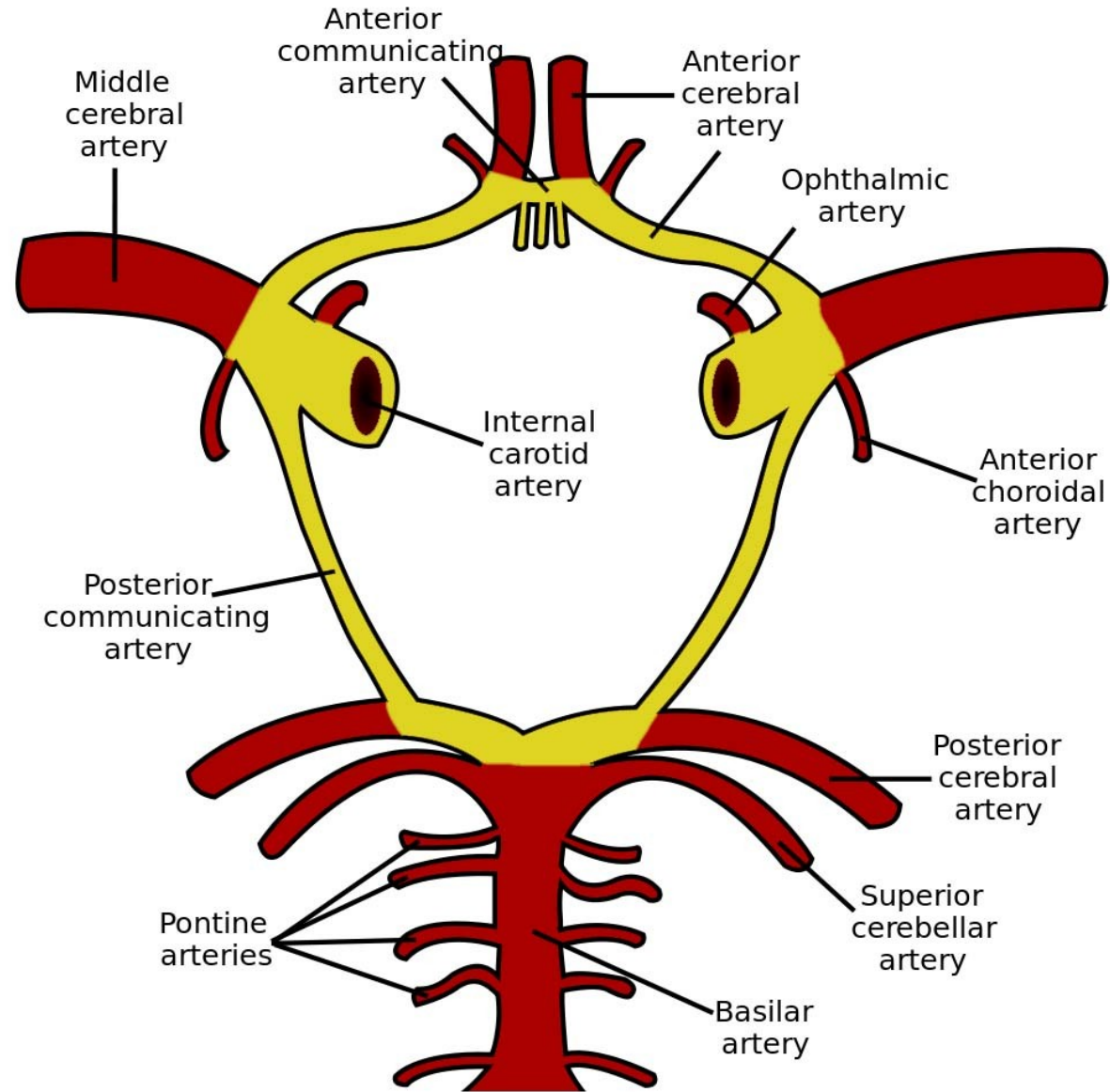
Oblouk aorty



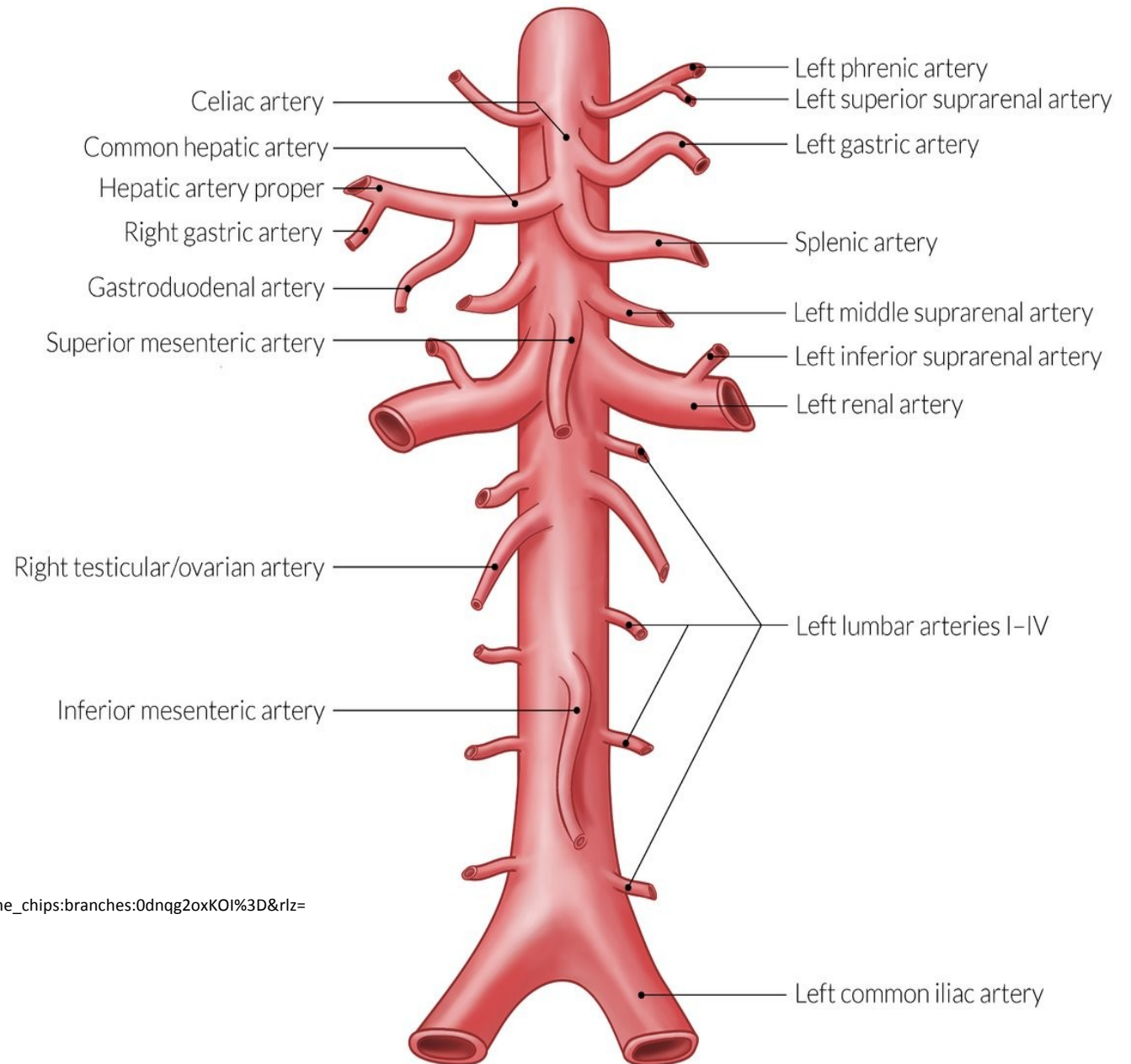
Odstupy aa. carotis



Wilisův okruž



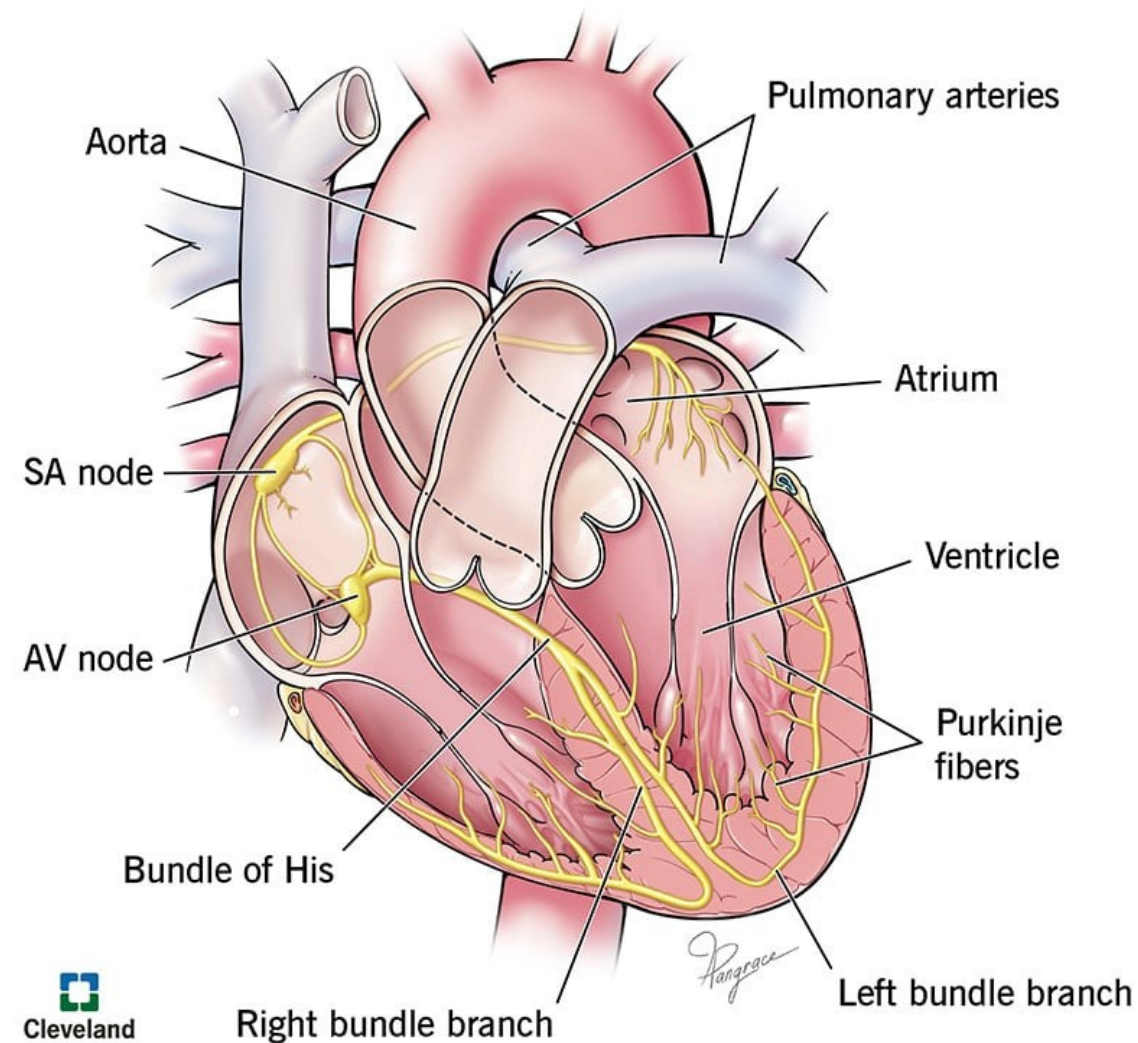
Odstupy břišní aor



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-2D34Q4lYoAXoECAEQJA&biw=617&bih=243#imgrc=5Q991GRSN4nKAM

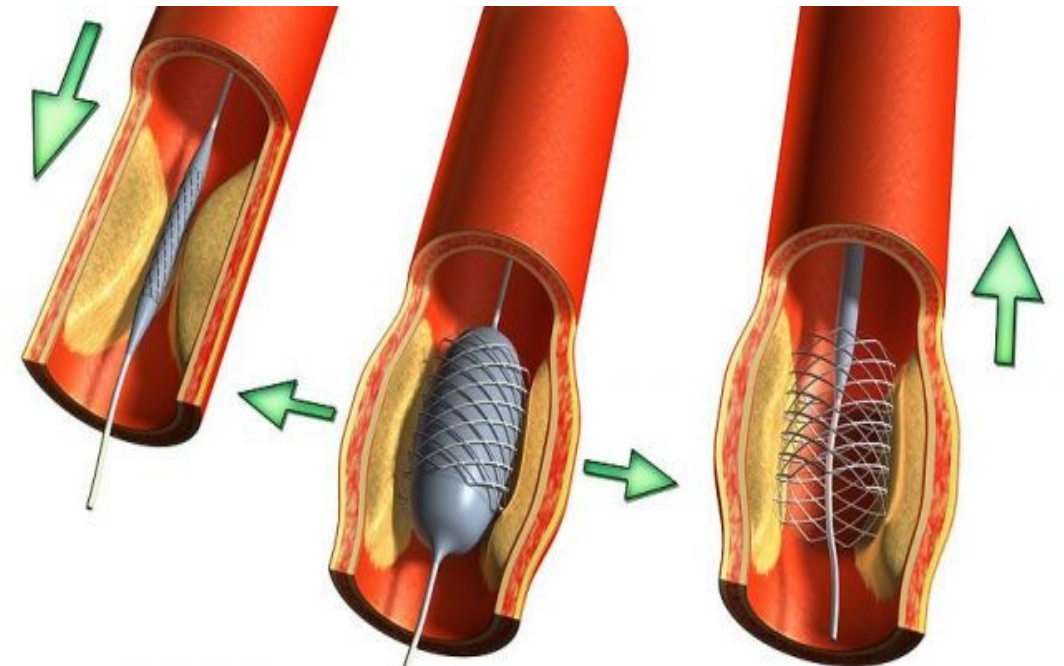
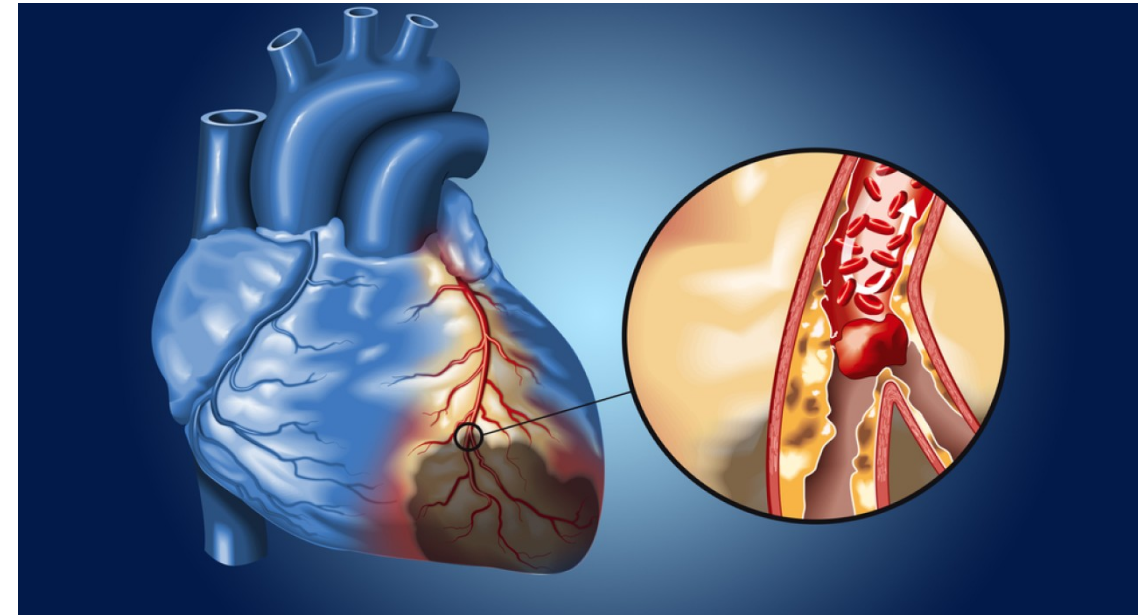
Převodní systém srdeční

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



Infarkt

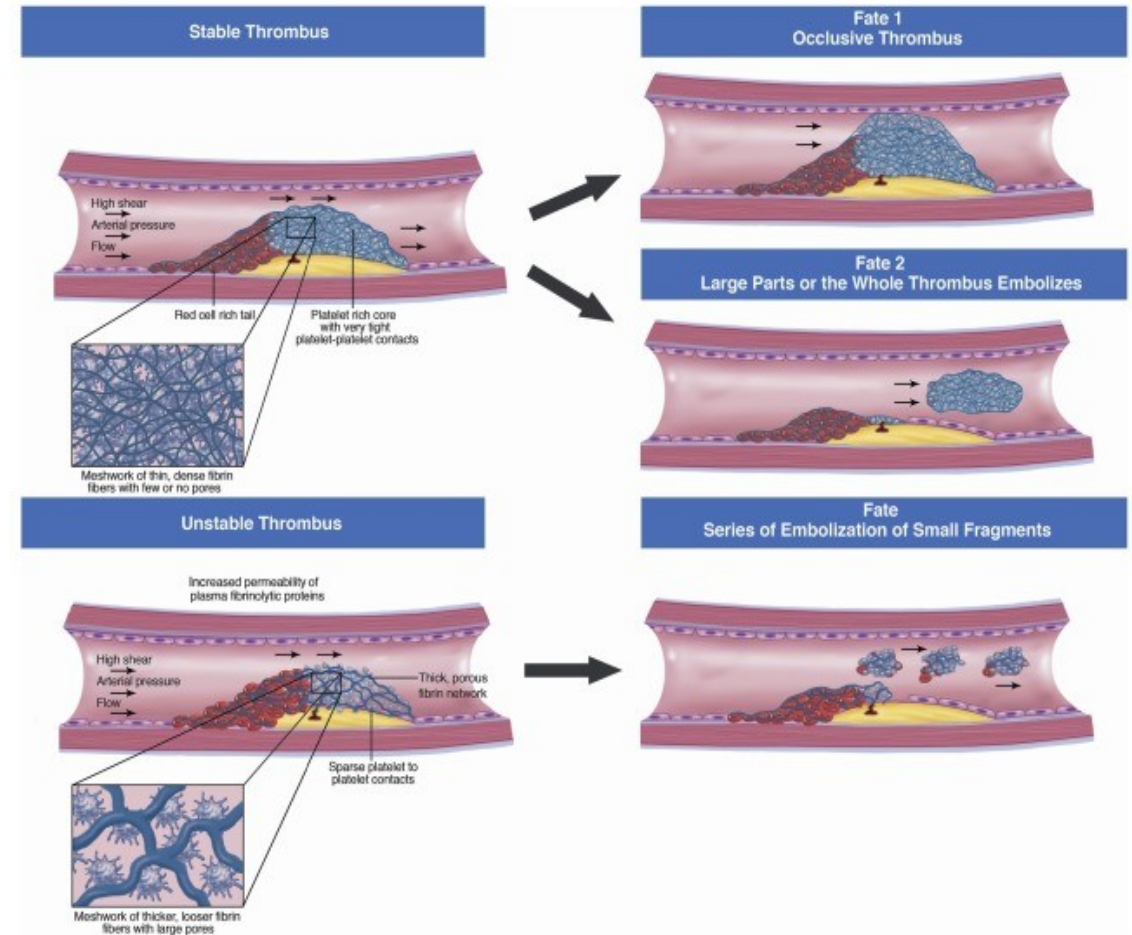
- <https://www.youtube.com/watch?v=QllguanpKic>
- Angioplastika
- <https://www.youtube.com/watch?v=p3z9FLYijrQ>



Srážení krve

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

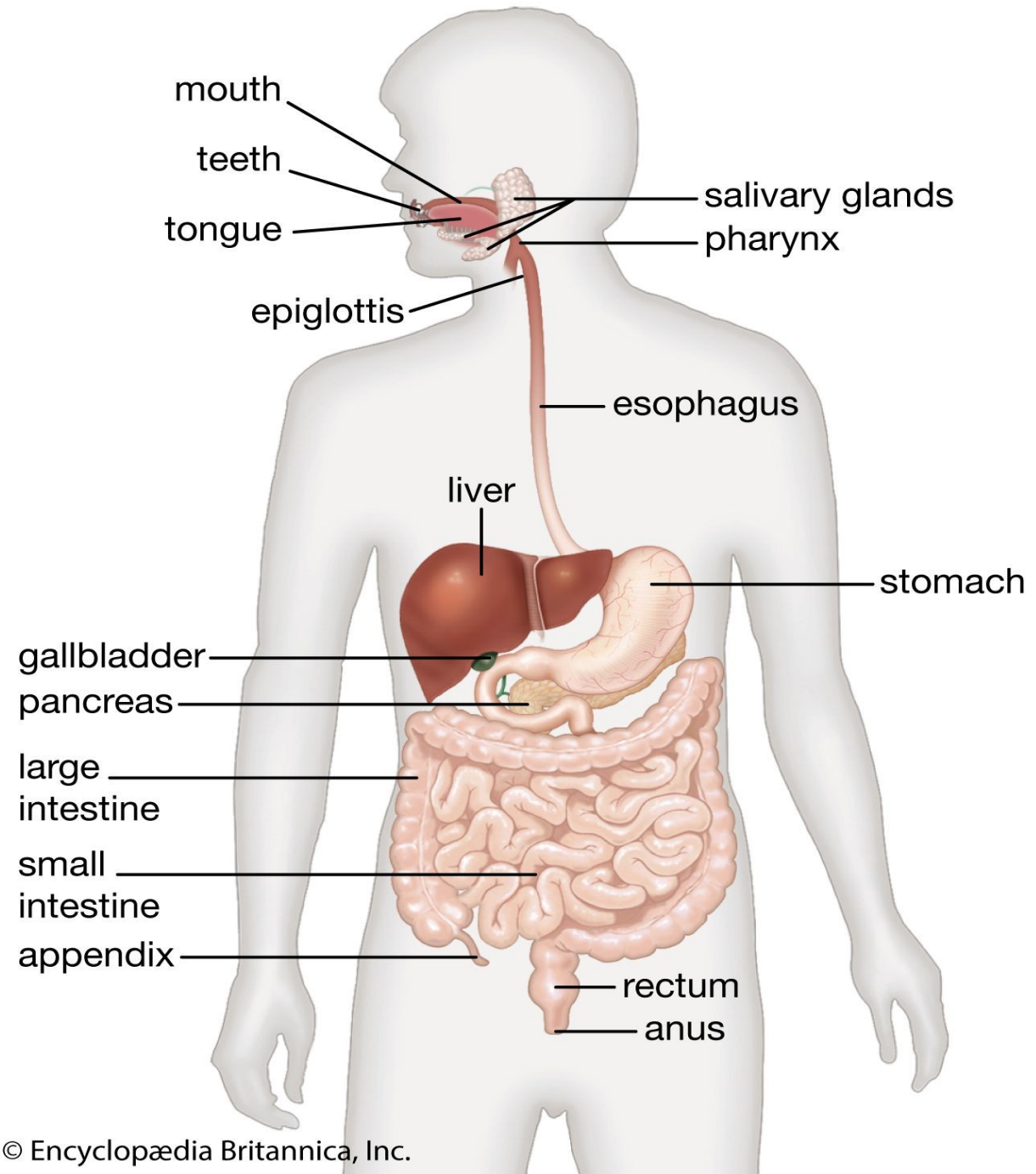
CENTRAL ILLUSTRATION: Potential Fate of a Growing Aterial Thrombus, Depending on Thrombus Stability



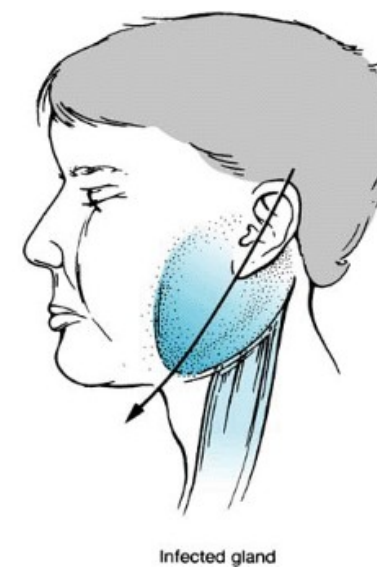
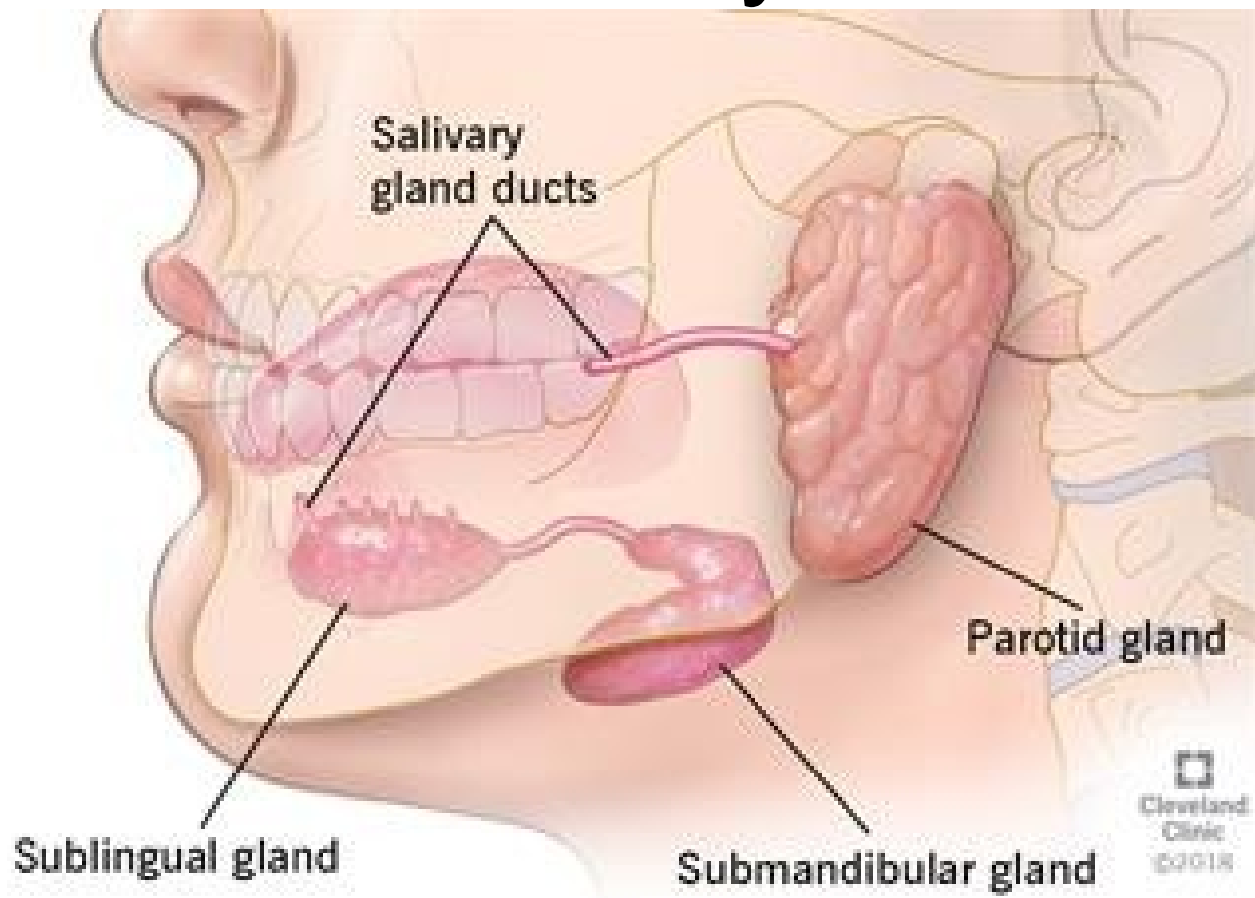
Gorog, D.A. et al. J Am Coll Cardiol. 2017;70(16):2036-47.

Trávicí systém

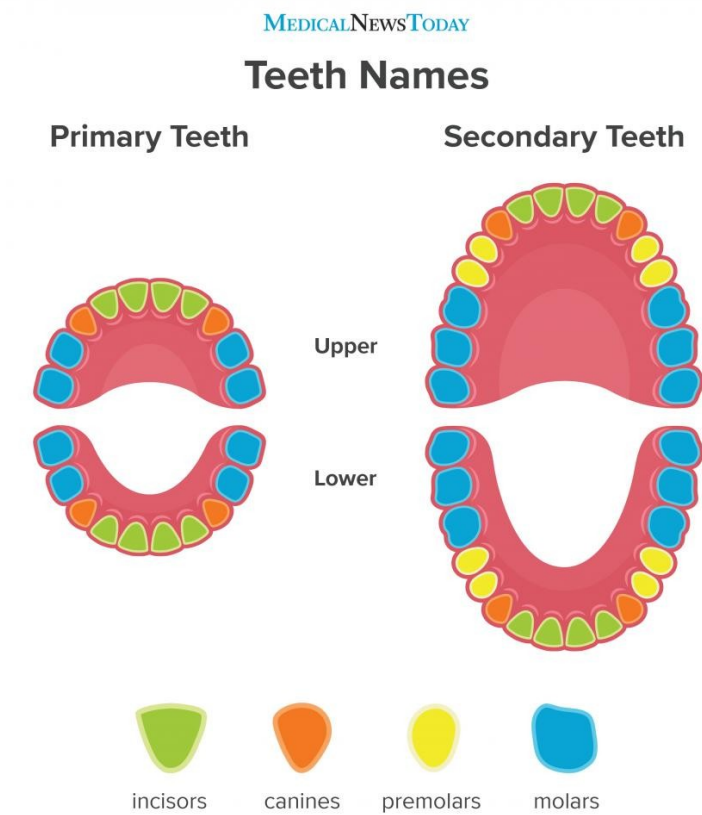
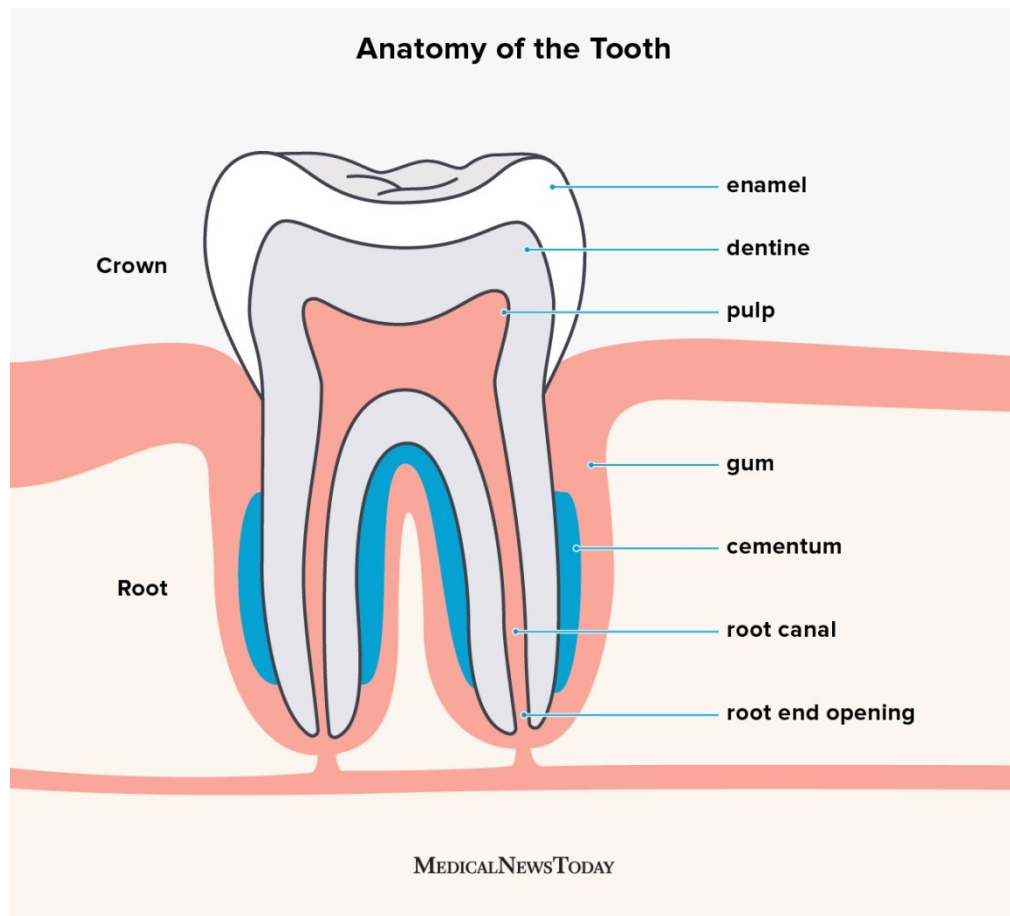
- <https://www.youtube.com/watch?v=X3TAR0otFfM>



Slinné žlázy



Zuby, denty



Žaludek

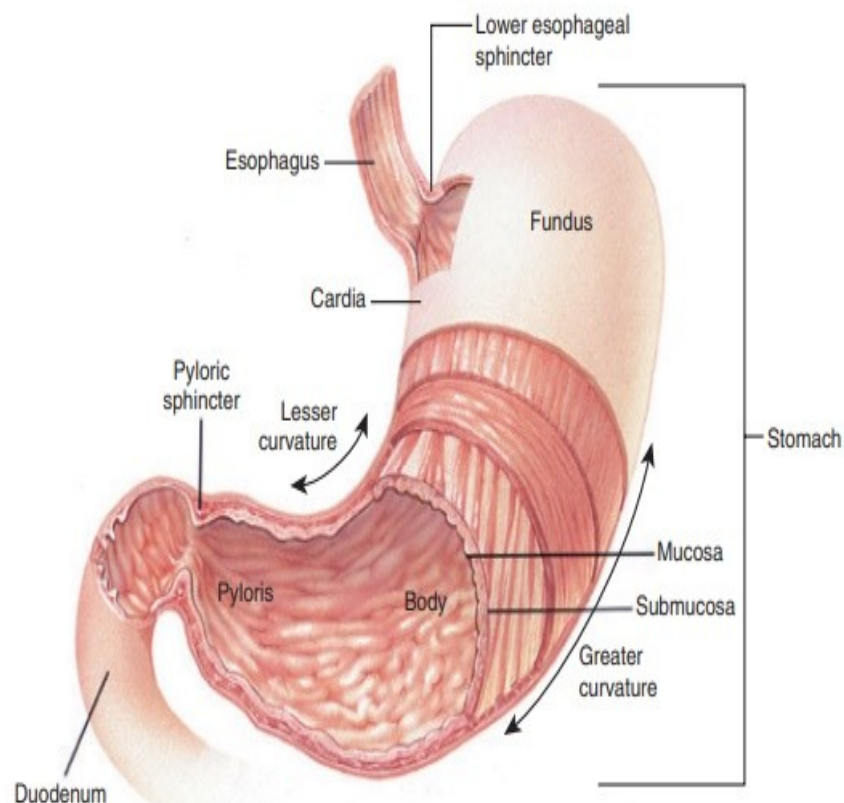
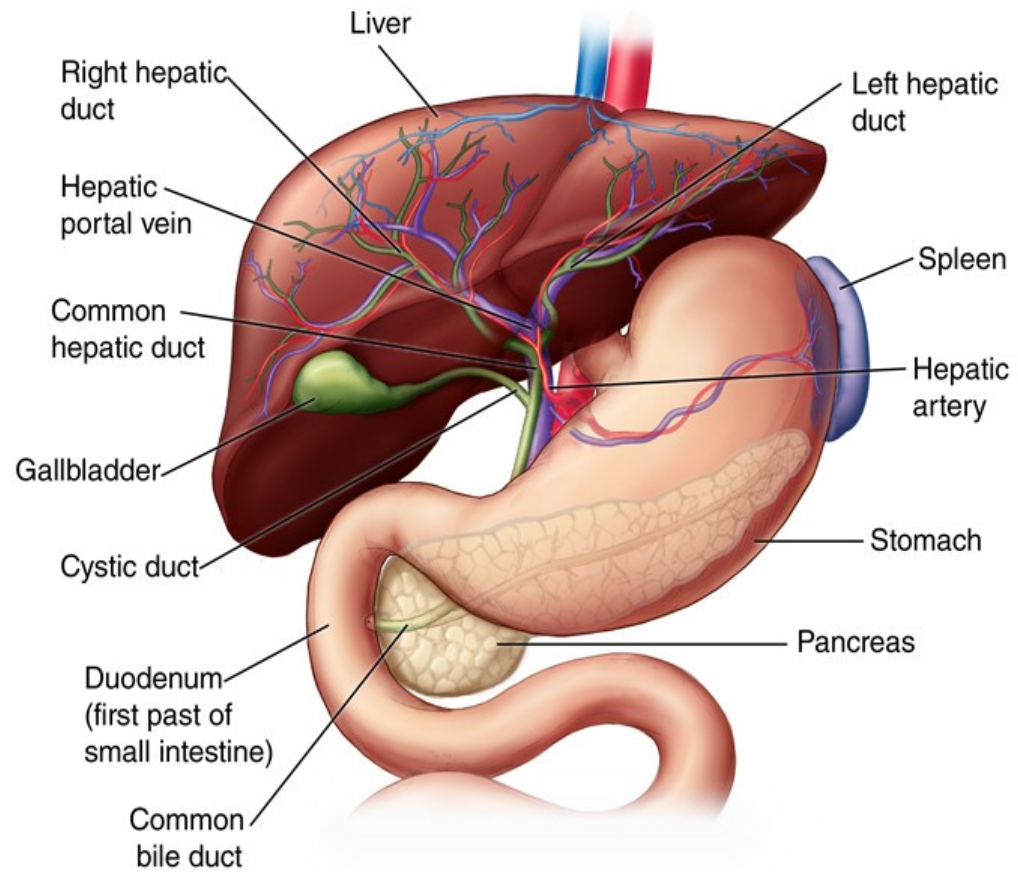


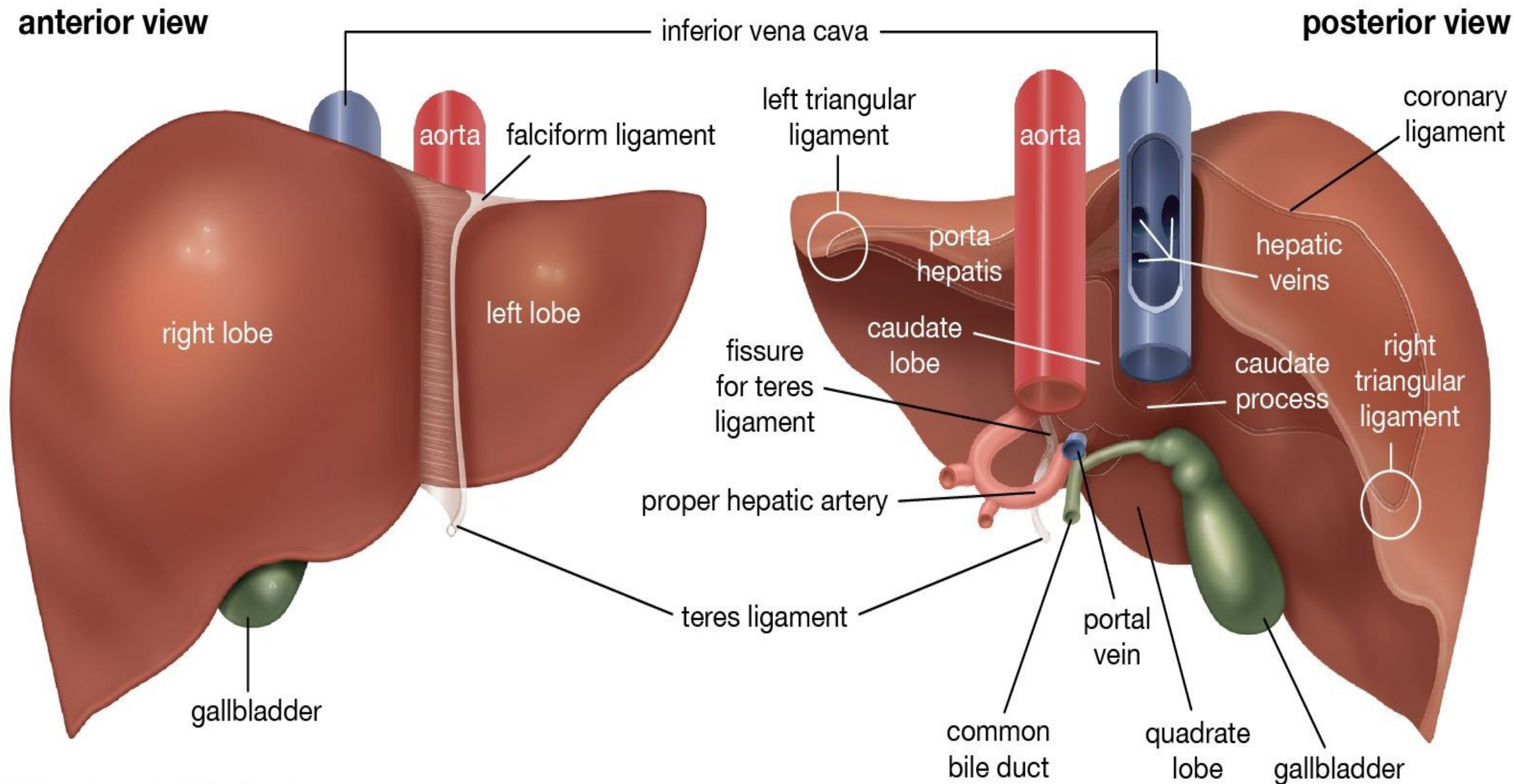
FIGURE The stomach.

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

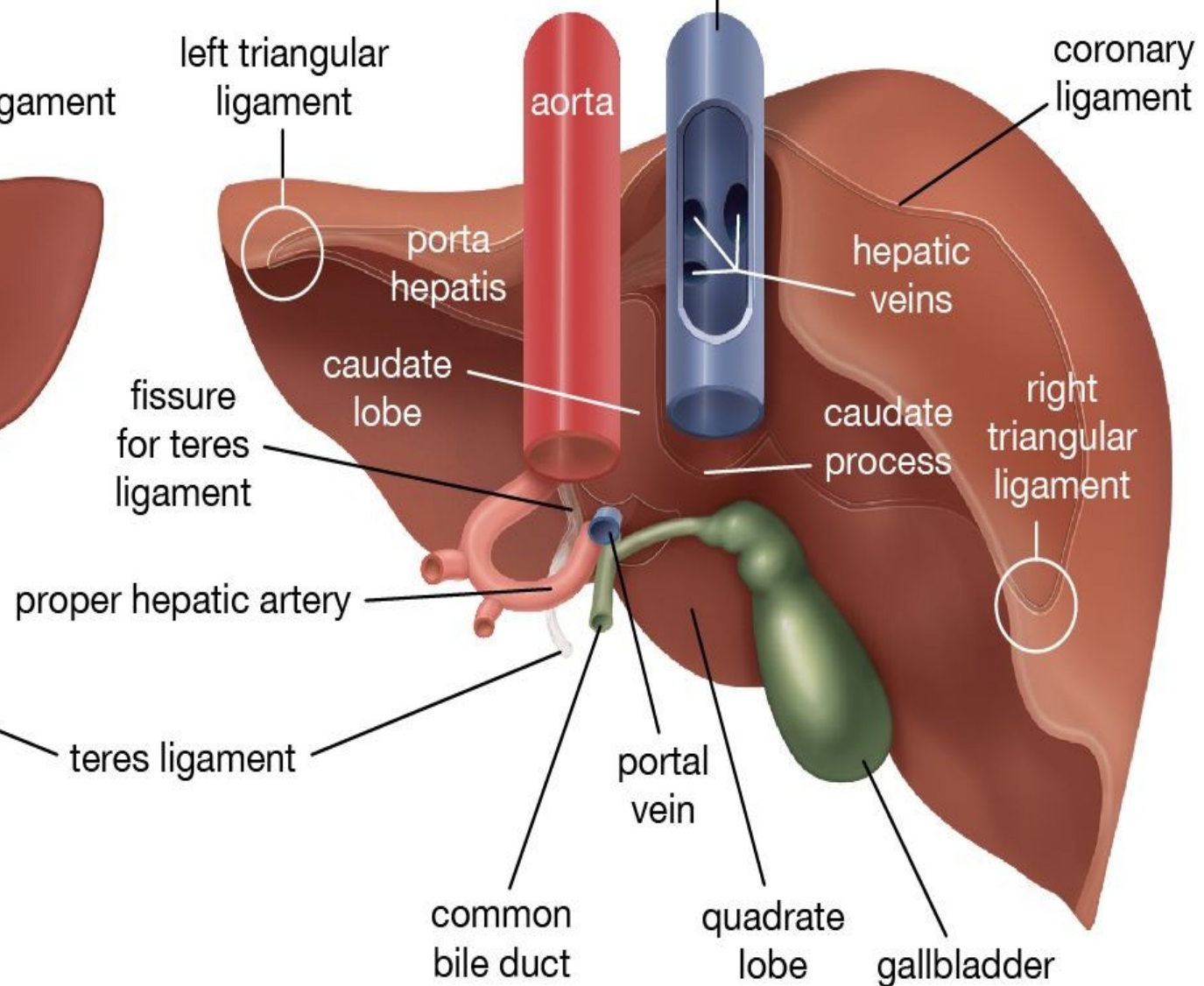
Játra



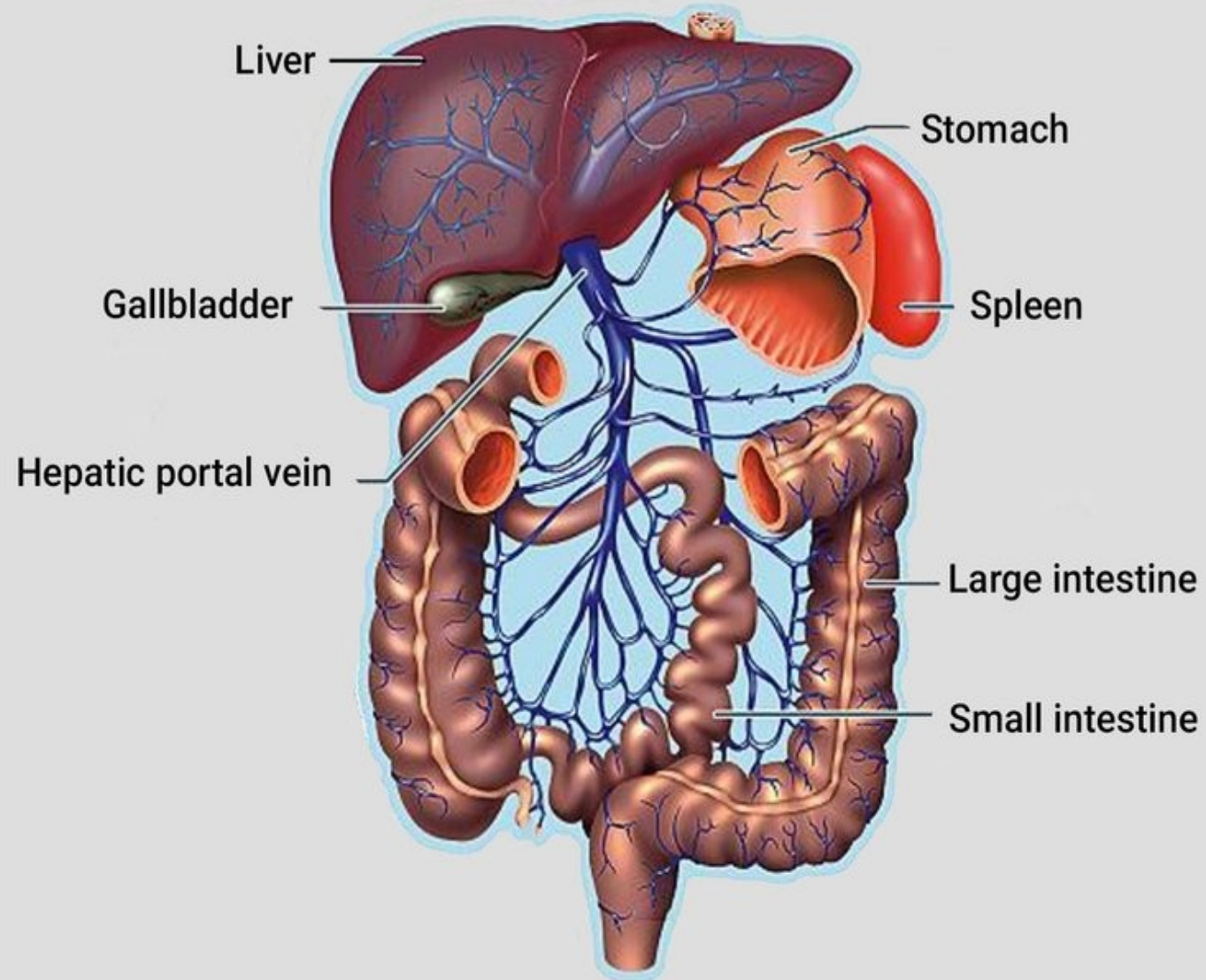
anterior view

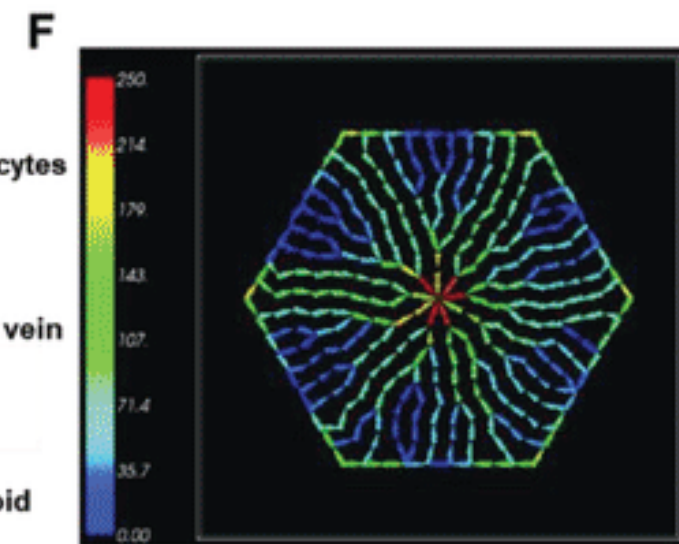
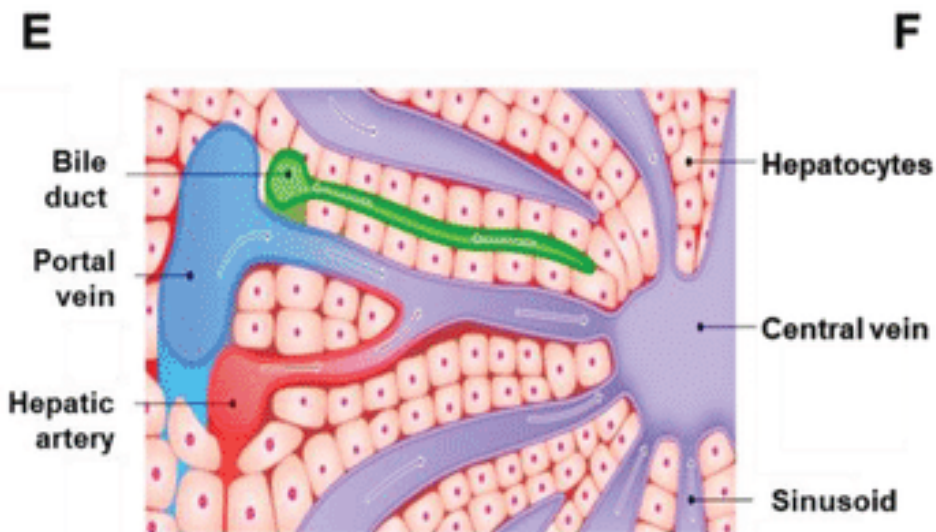
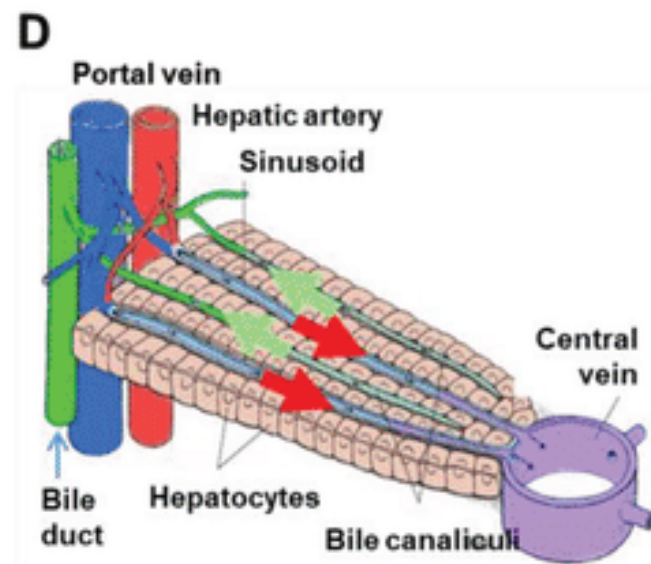
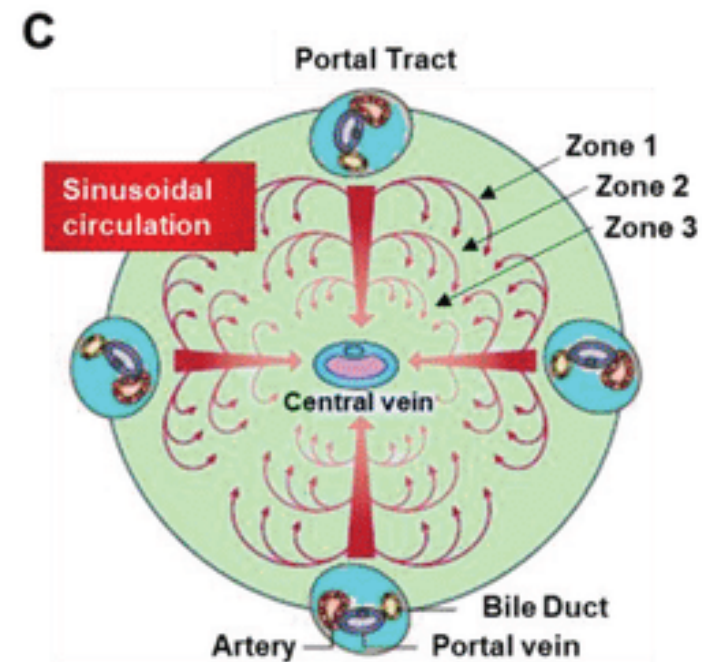
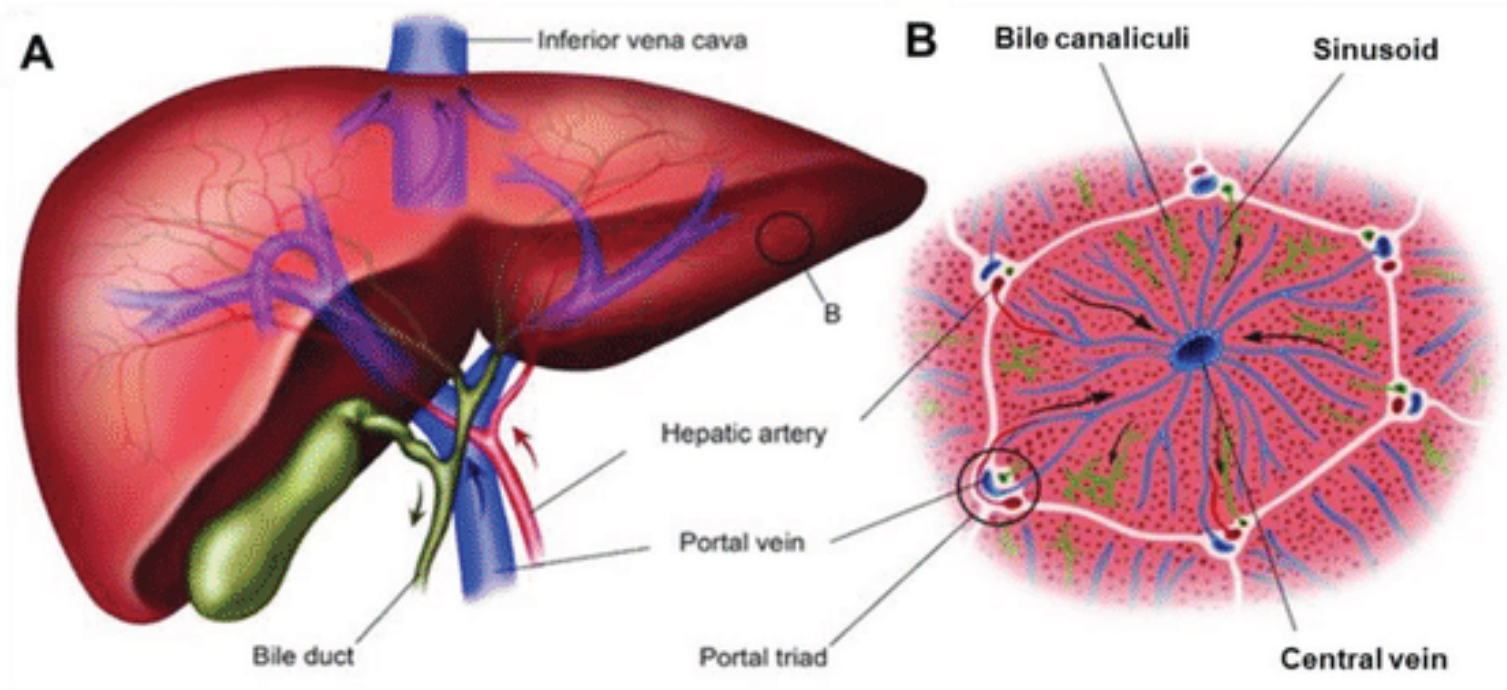


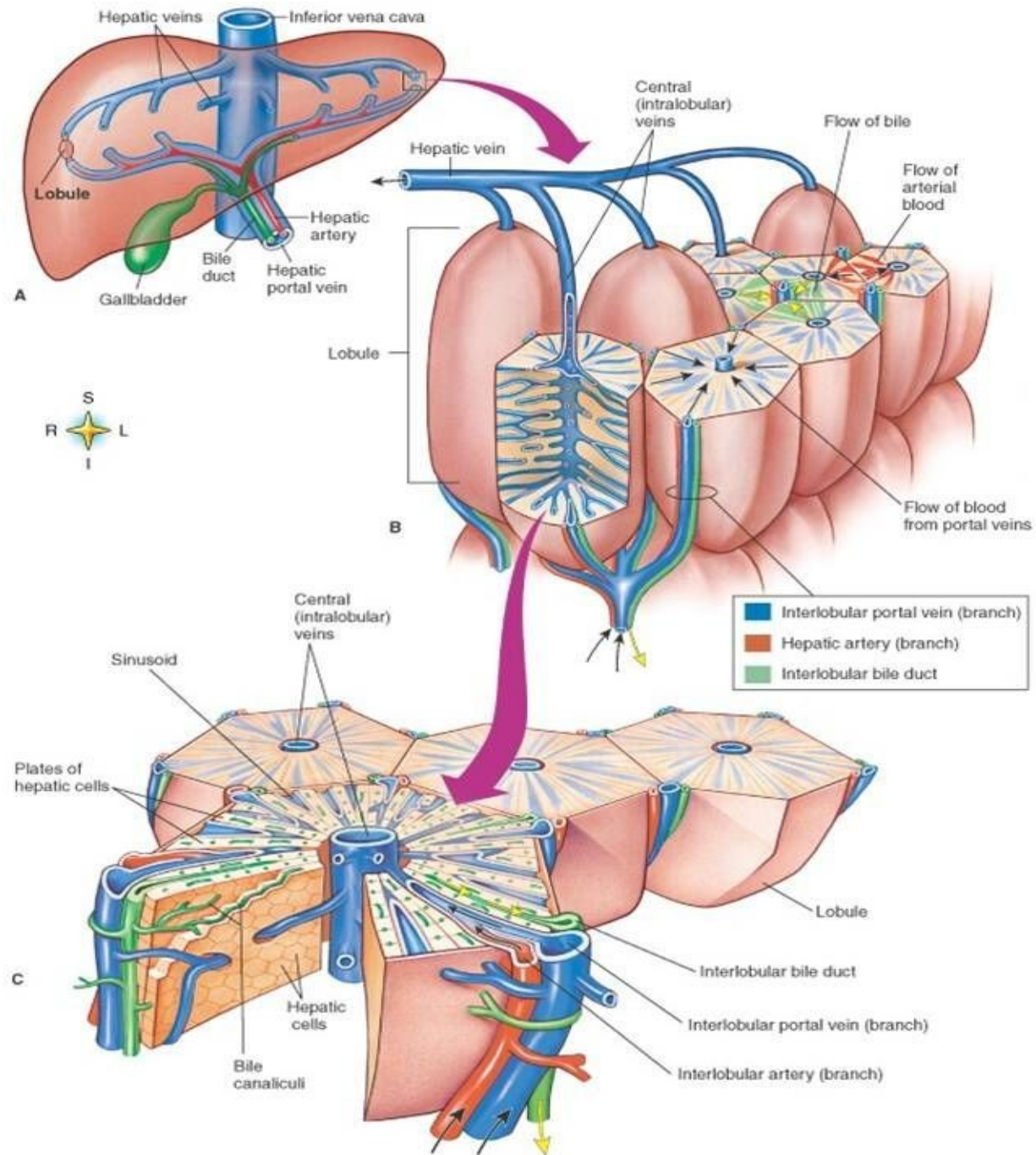
posterior view



Portální oběh





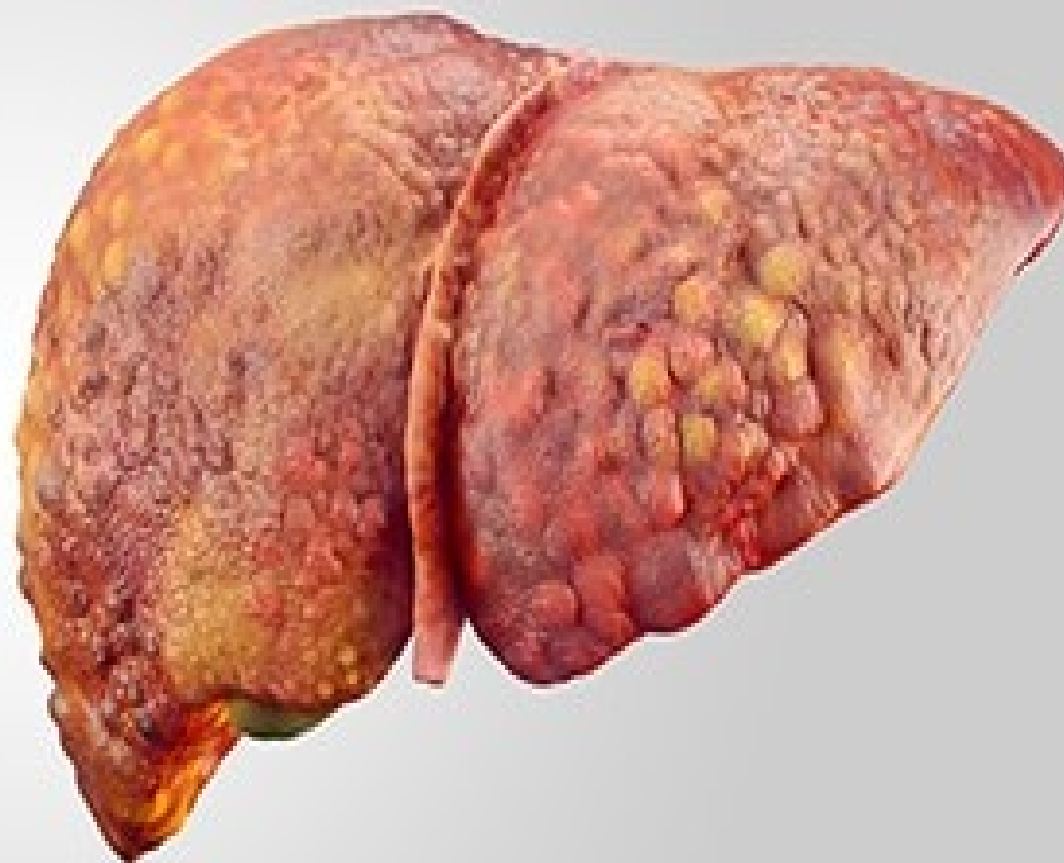


Funkce jater

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

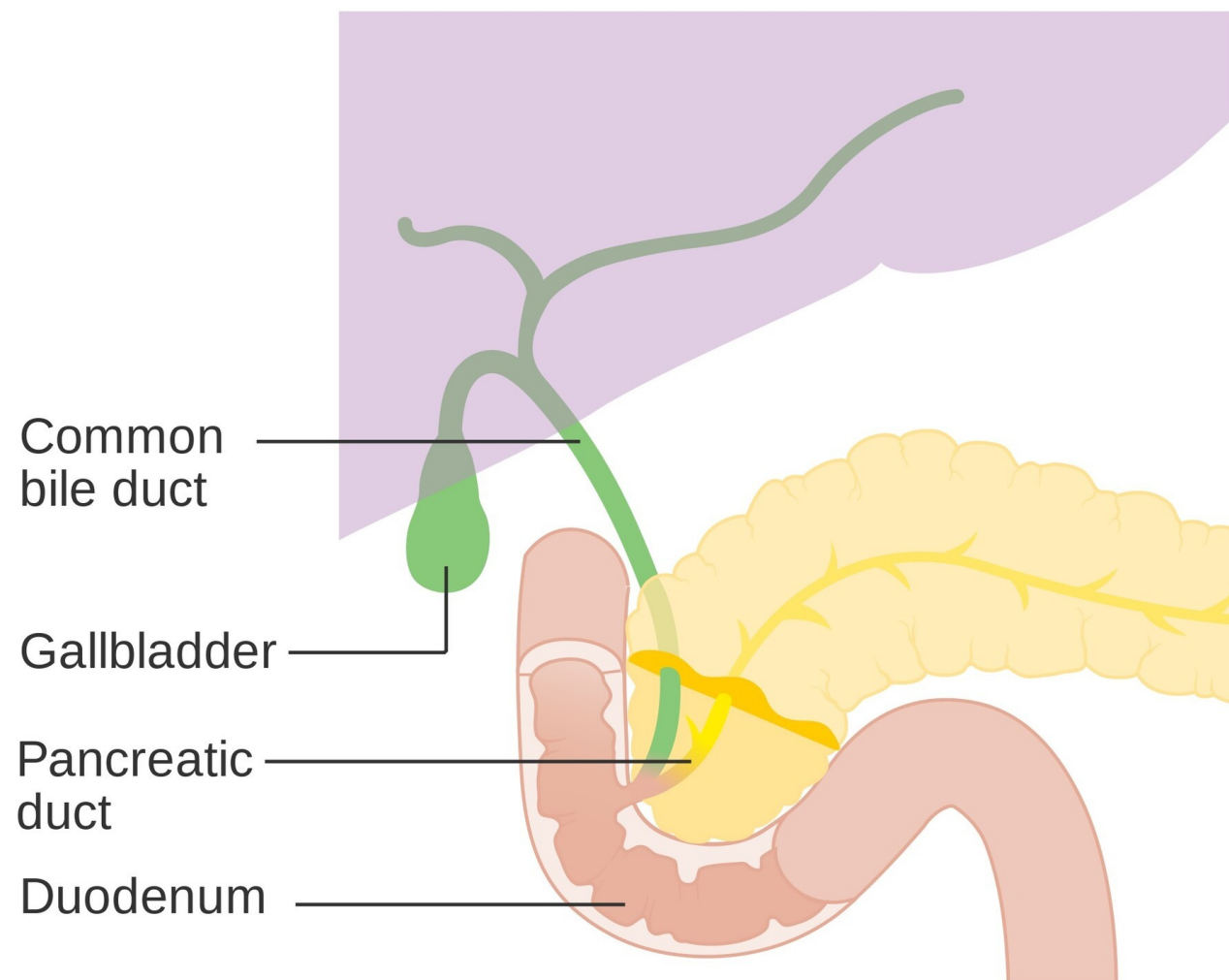


healthy liver

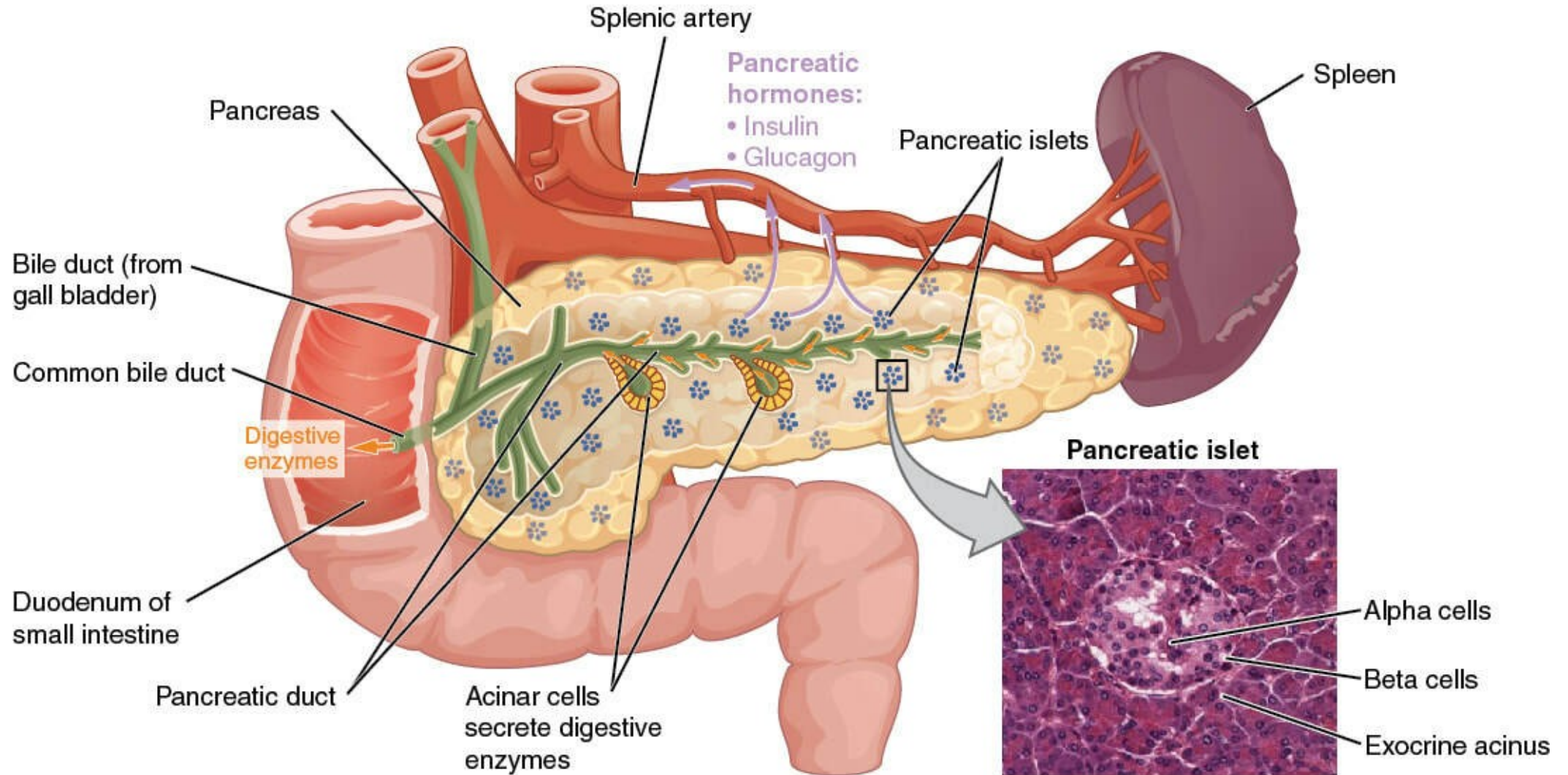


cirrhosis

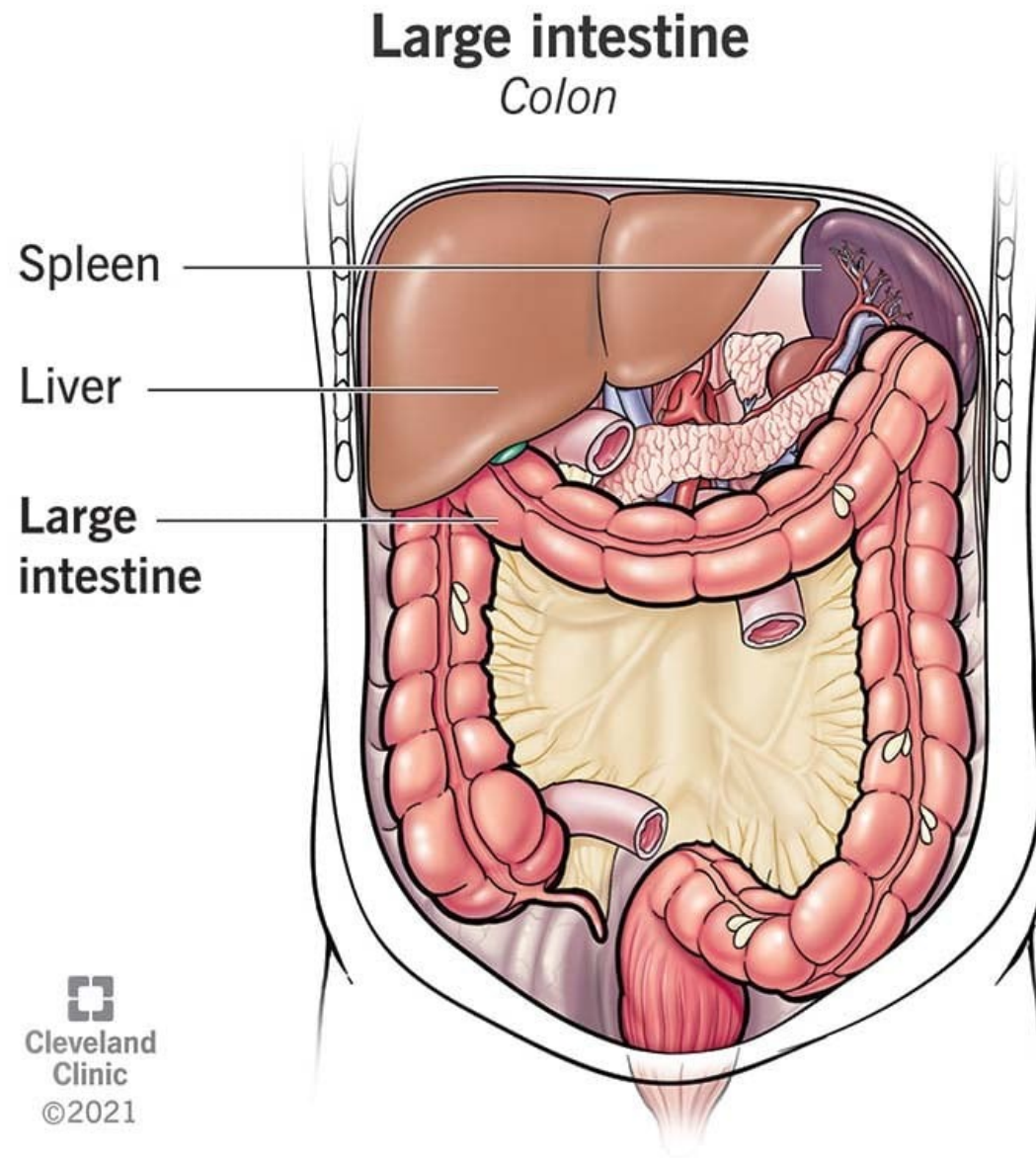
Žlučové cesty



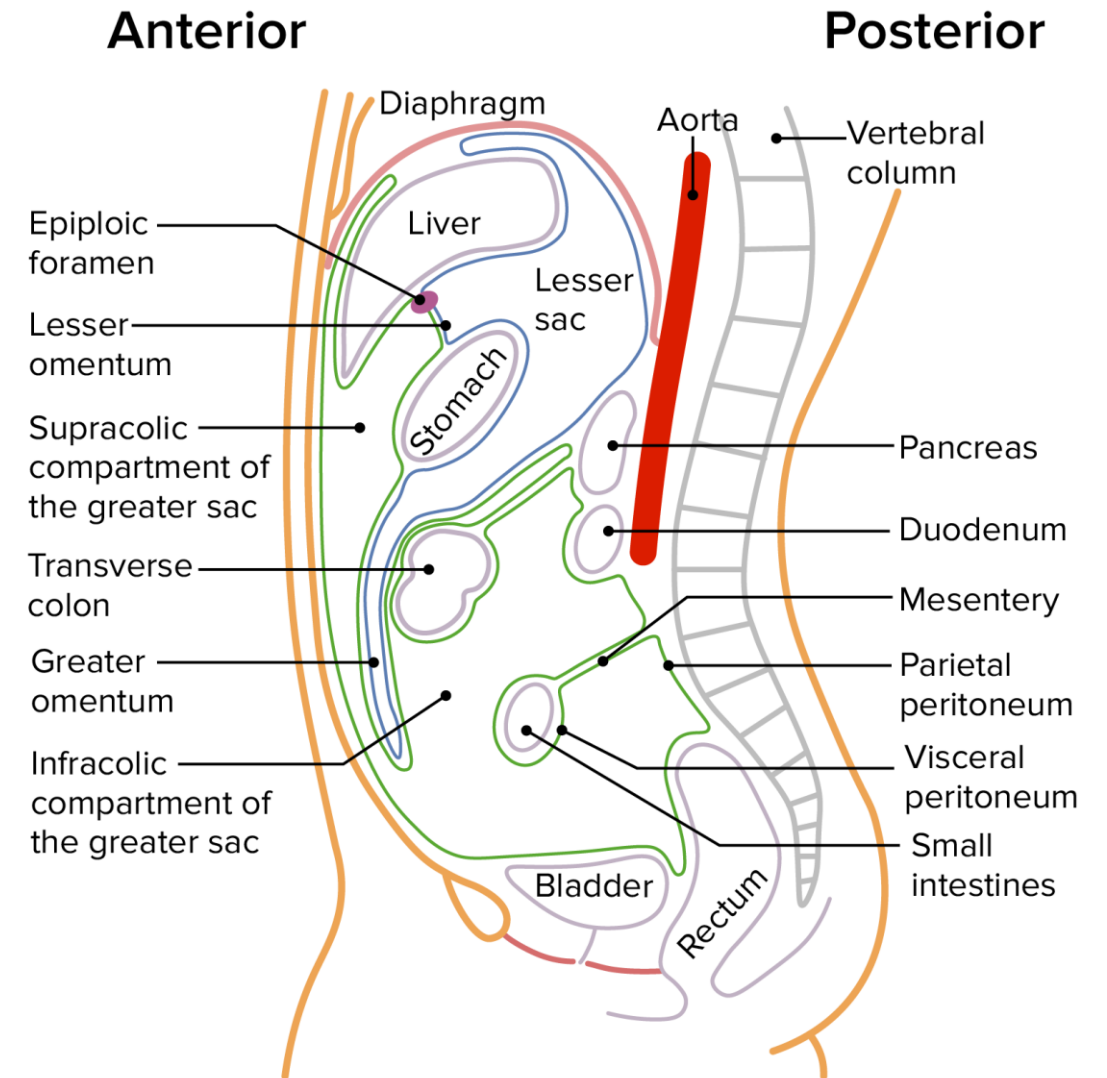
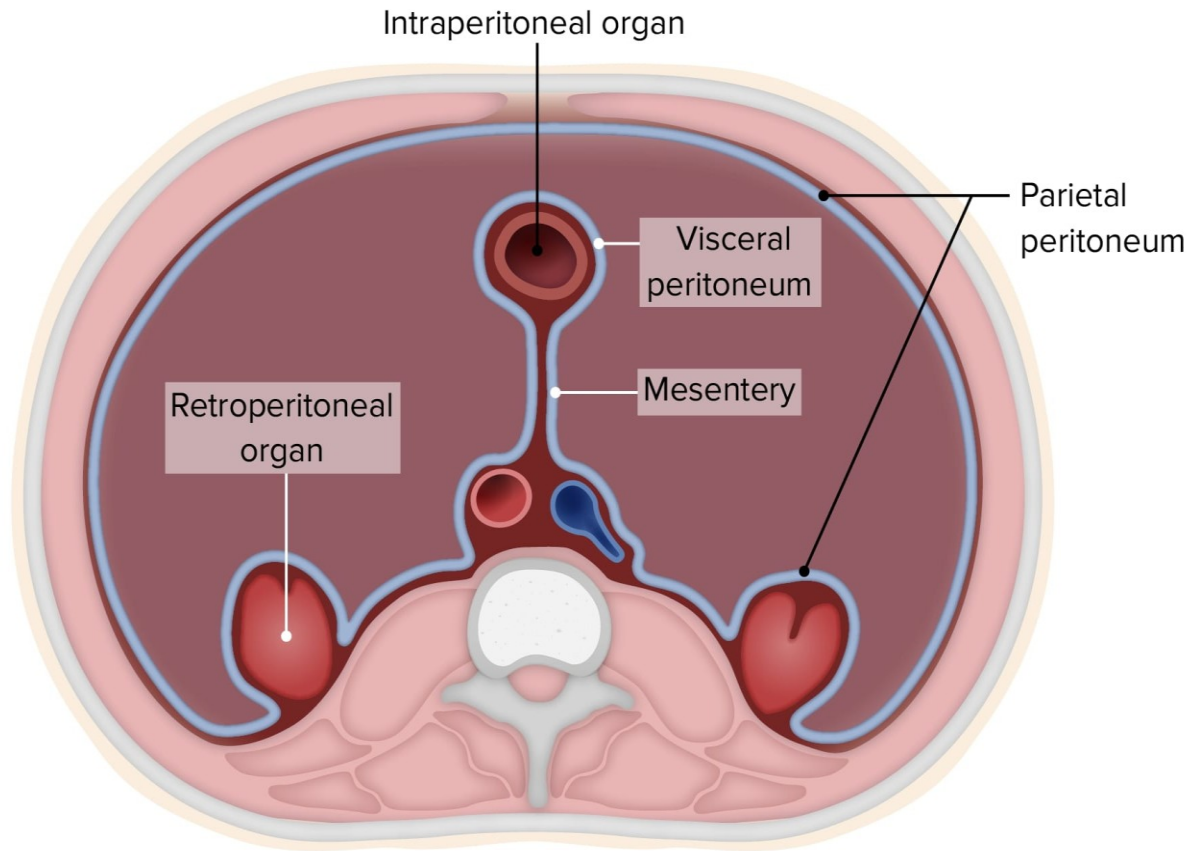
Slinivka břišní, pancreas

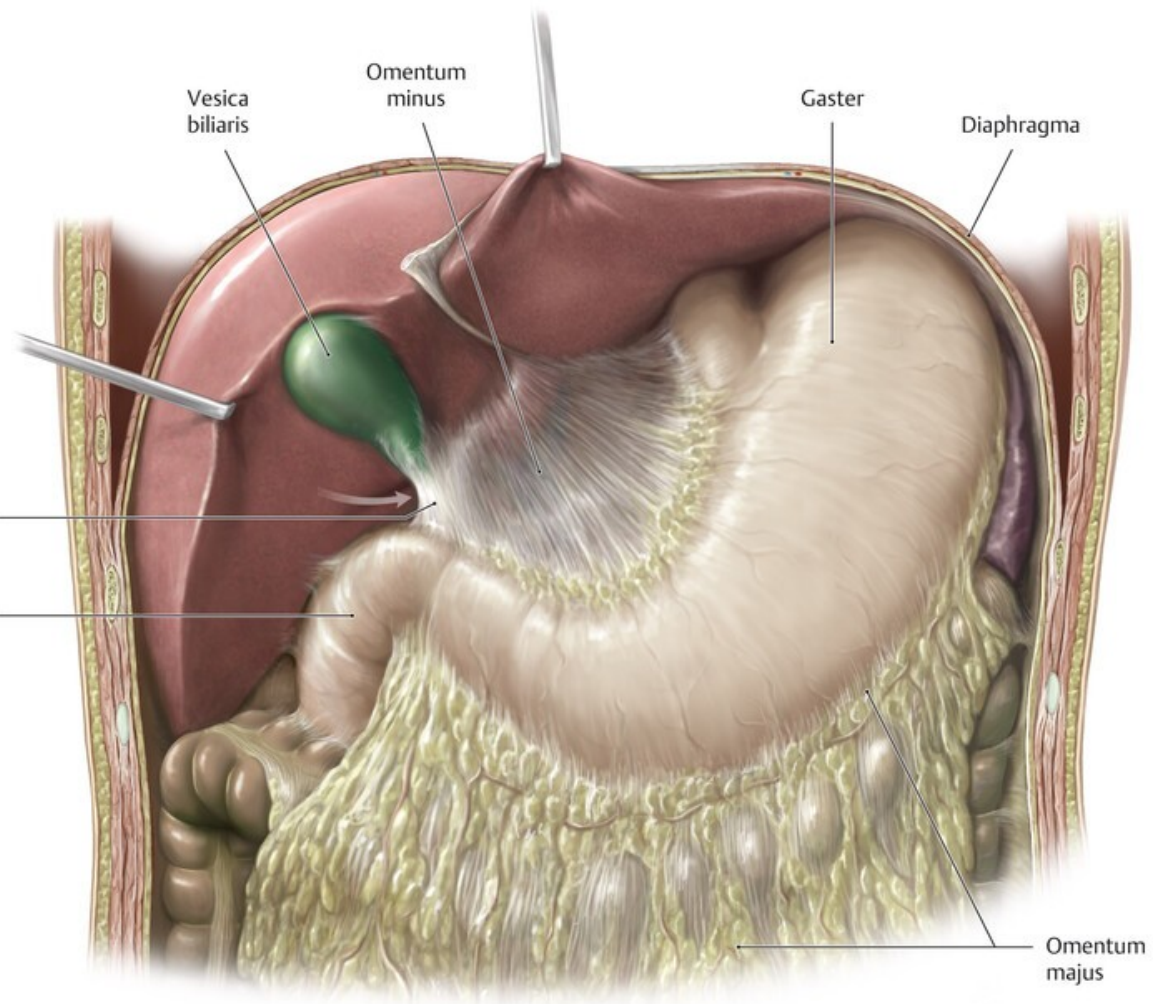
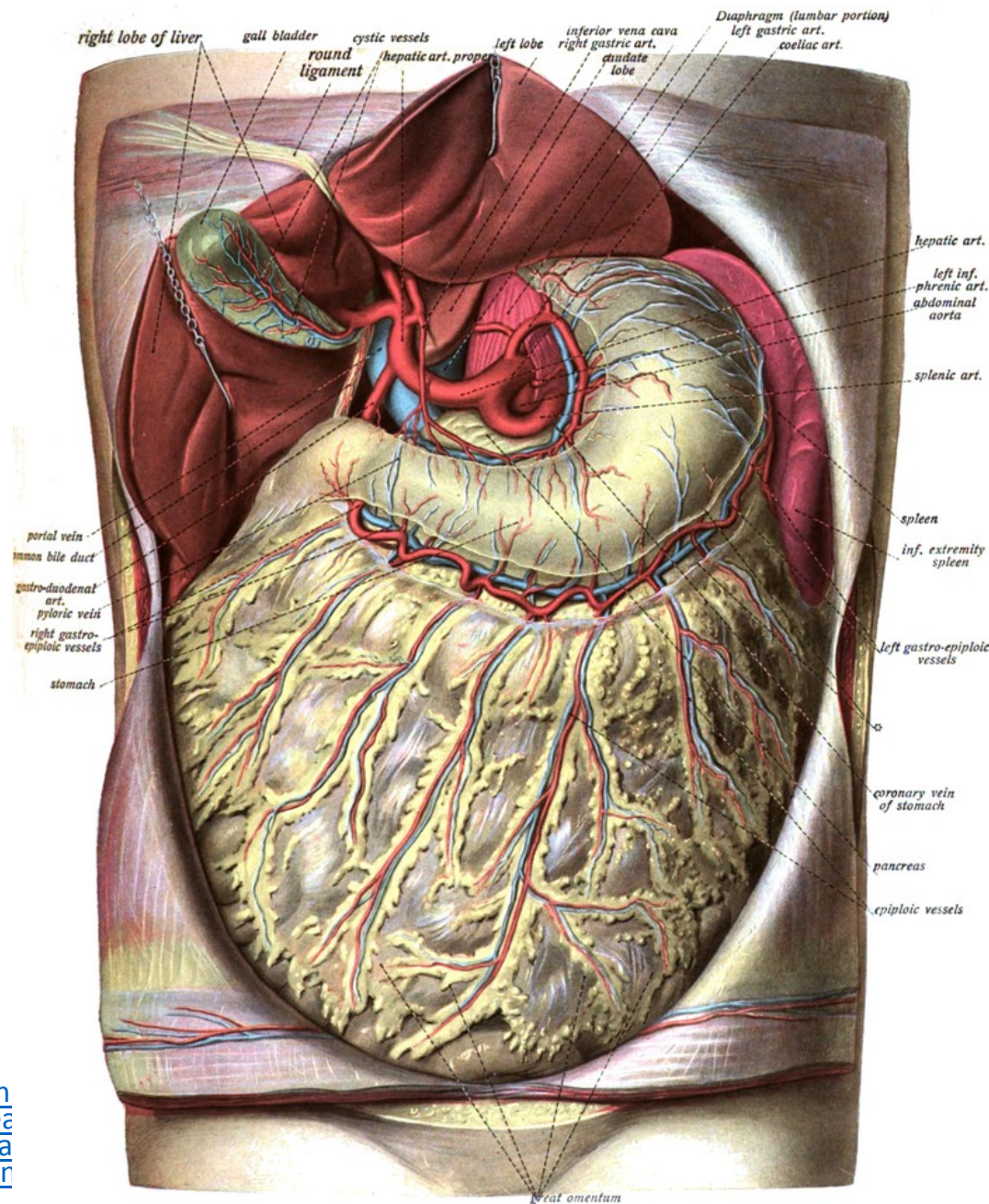


Střeva

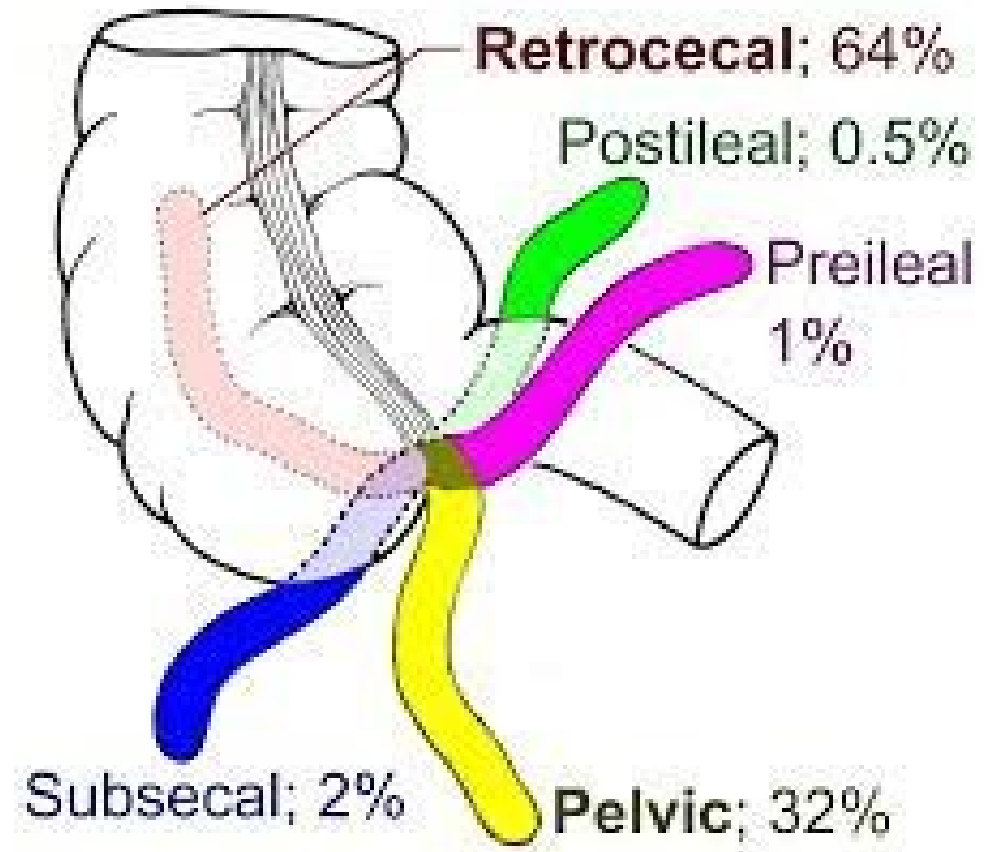
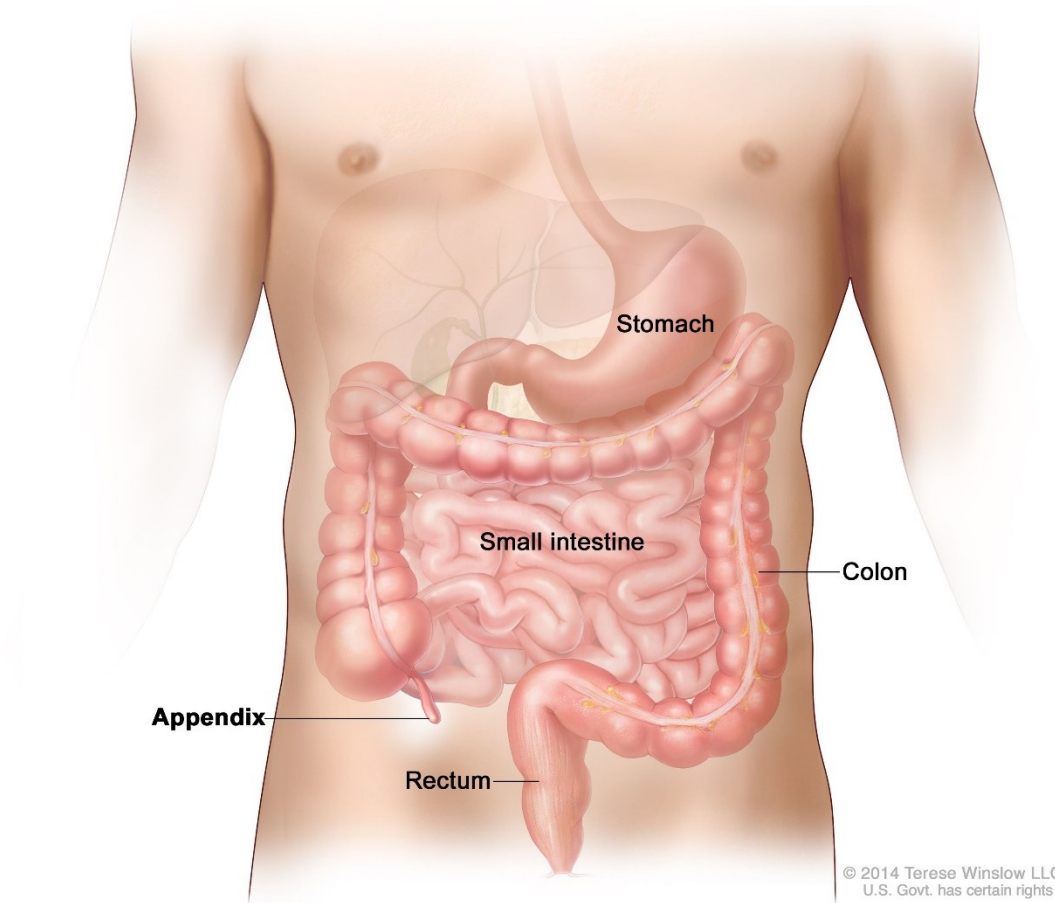


Peritoneum



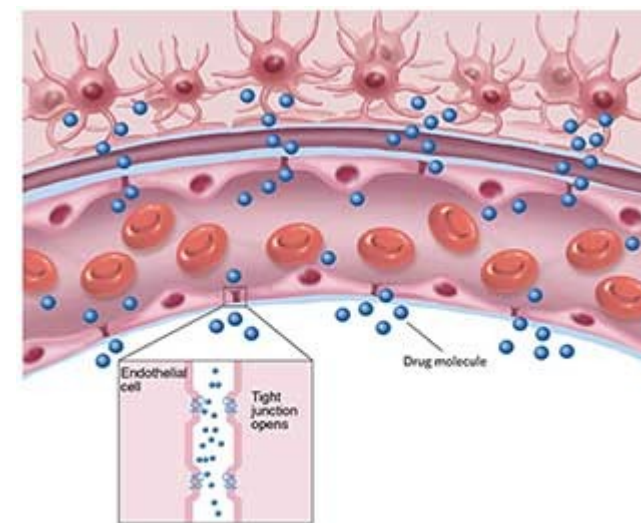
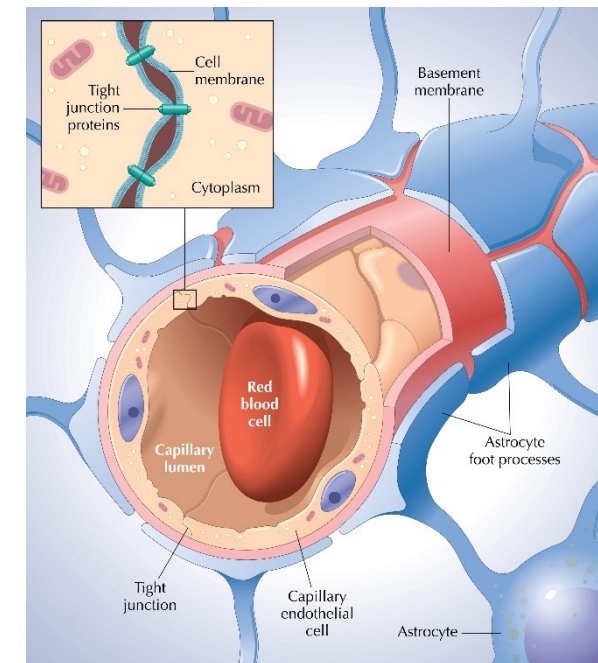
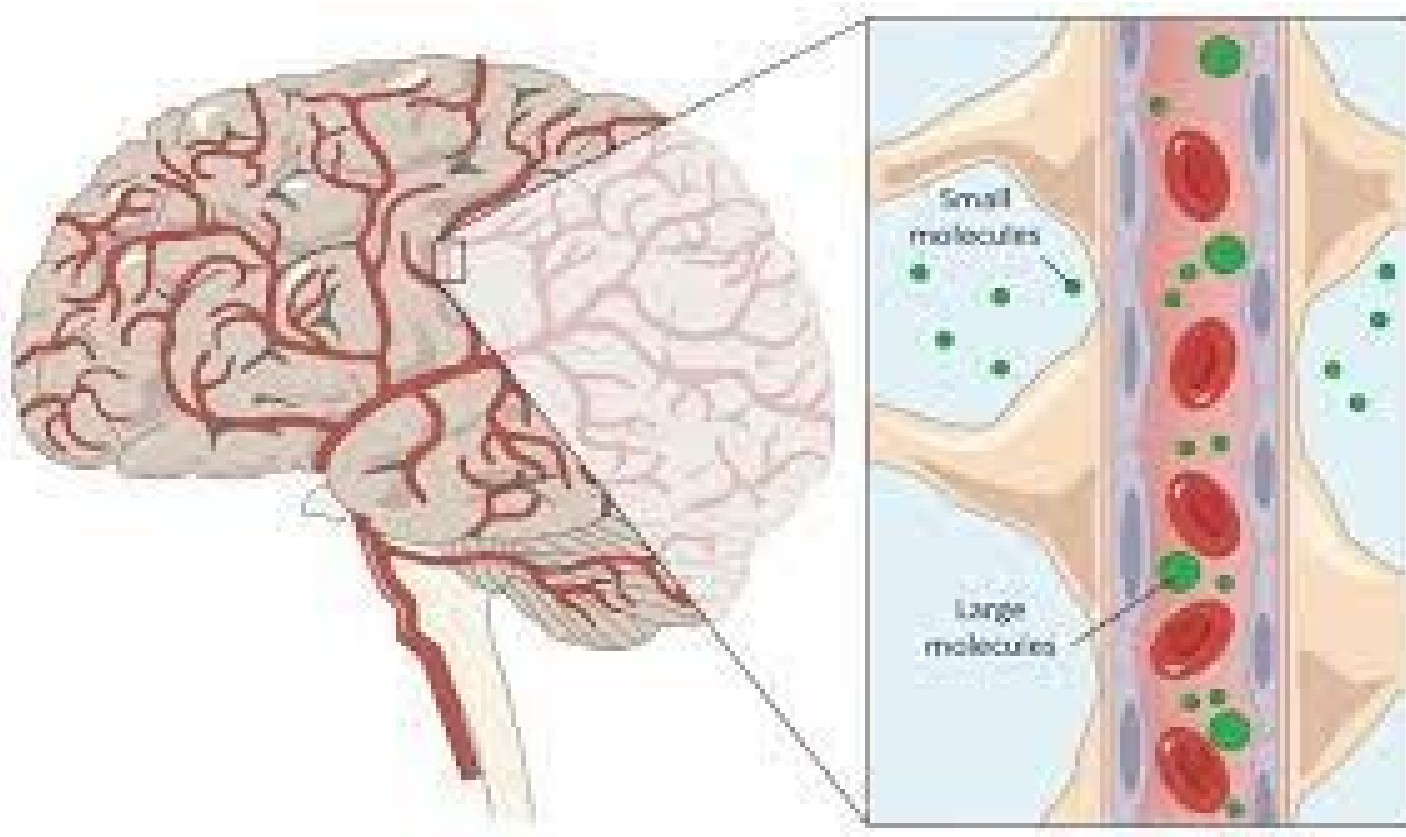


Appendix



Hematoencefalická bariéra

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



https://www.google.com/search?q=hematoencephalic+barrier&tbm=isch&ved=2ahUKEwjkhLTb-cz7AhUotKQKHYyWAlAQ2-
cCegQIABAA&oeq=hematoencephalic&gs_lcp=CgNpbWcQARgAMGUlABCABDIECAAQHjIECAAQHjIECAAQHjIECAAQHjIECAAQgAQAQGDGoGCAAQBxAeOgQIABBDoggIABCABBCxAzoGCAAQBRaEUP8KWLMzYPFGaABwAHgA
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