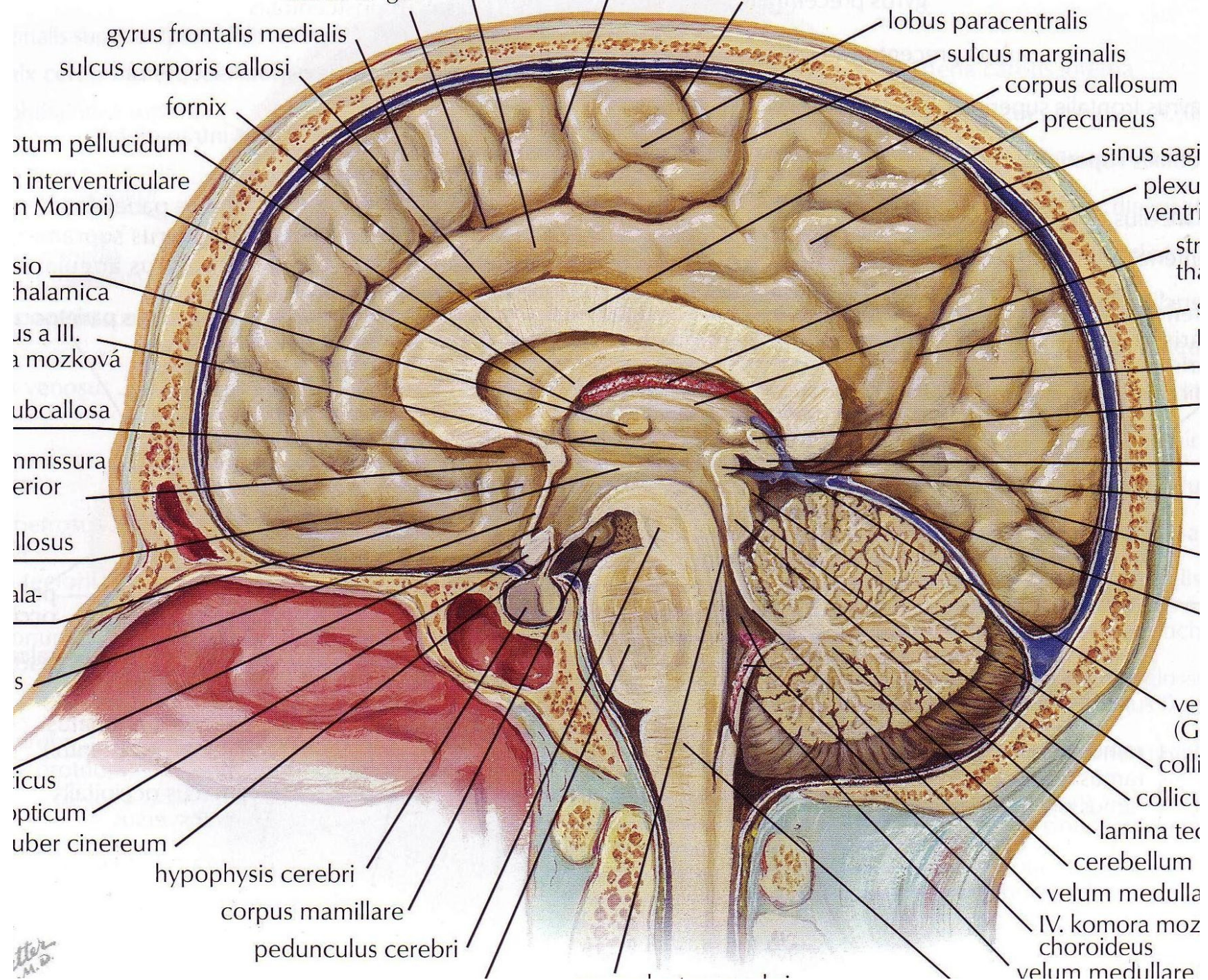


endokrinní žlázy

- hypofýza (podvěsek mozkový)
- epifýza (šišinka)
- glandula thyroidea
- glandulae parathyroideae
- thymus
- glandulae suprarenales
- pancreas
- ovaria
- testes

hypofýza

- nadřazený orgán endokrinních žláz
- řízena hypothalamem
- adenohypofýza (přední lalok)
 - somatotropní hormon
 - thyreotropní hormon
 - folikuly stimulující hormon
 - luteinizační hormon
 - adrenokortikotropní hormon
 - prolaktin
- neurohypofýza (zadní lalok)
 - oxytocin
 - antidiuretický hormon (vasopresin)



gyrus frontalis medialis
sulcus corporis callosi

lobus paracentralis
sulcus marginalis
corpus callosum
precuneus

fornix
tumor pellucidum
cisterna interventricularis (cisterna Monroi)

sinus sagittalis superior
plexus choroideus ventriculi lateralis

substantia thalamica
nervus opticus III. (nervus opticus mozgová)

stratum opticum
stratum opticum

substantia callosa

commissura anterior

colliculus

ala

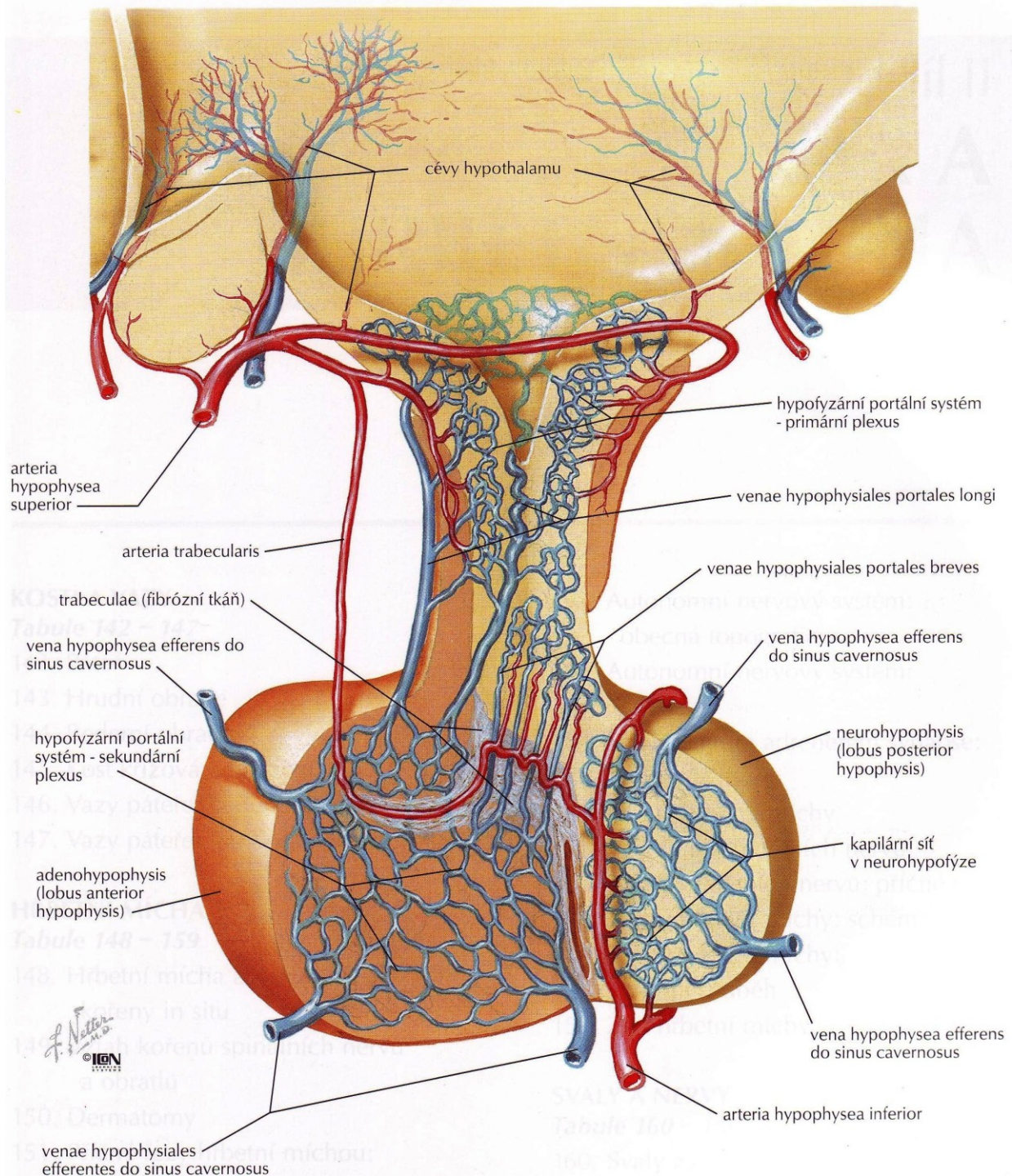
s

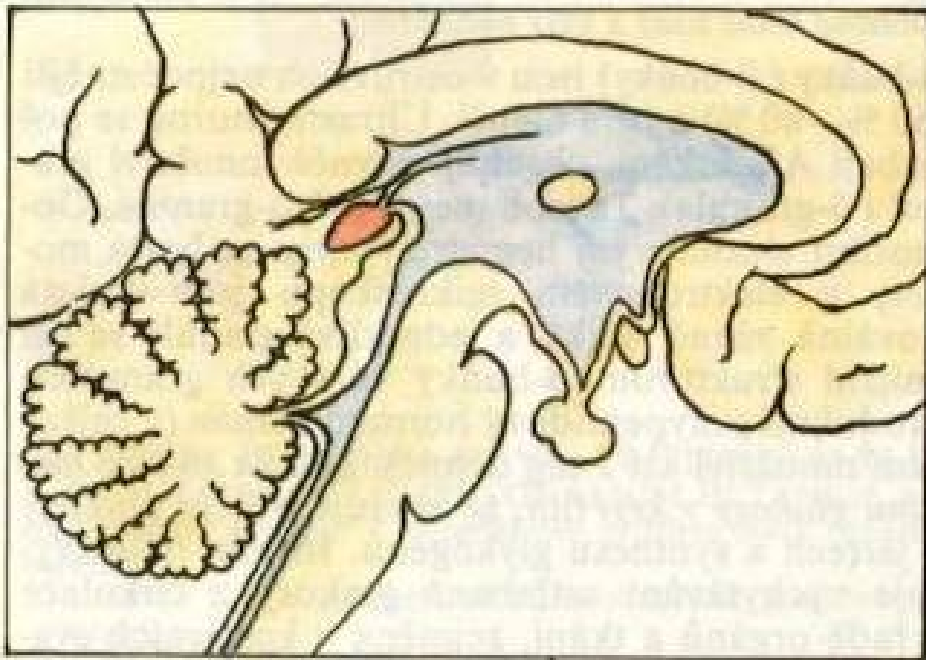
truncus opticus
nervus opticus
nervus cinereus

hypophysis cerebri
corpus mamillare
pedunculus cerebri

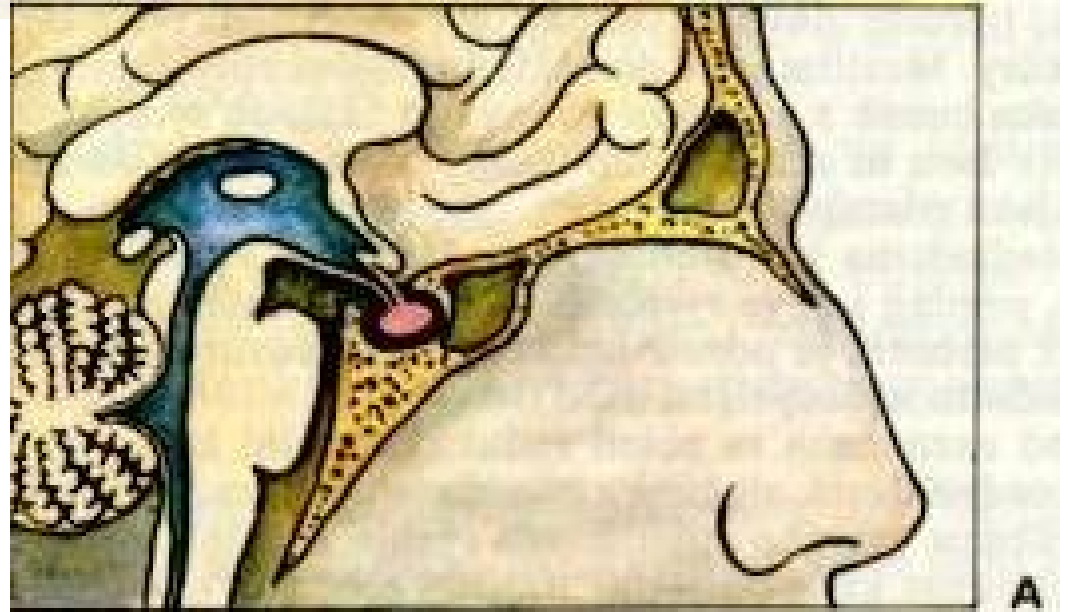
vermis (Germ.)
colliculus superior
colliculus inferior
lamina tectalis
cerebellum
velum medullare
IV. komora mozgová
velum medullare

Waller
M.D.

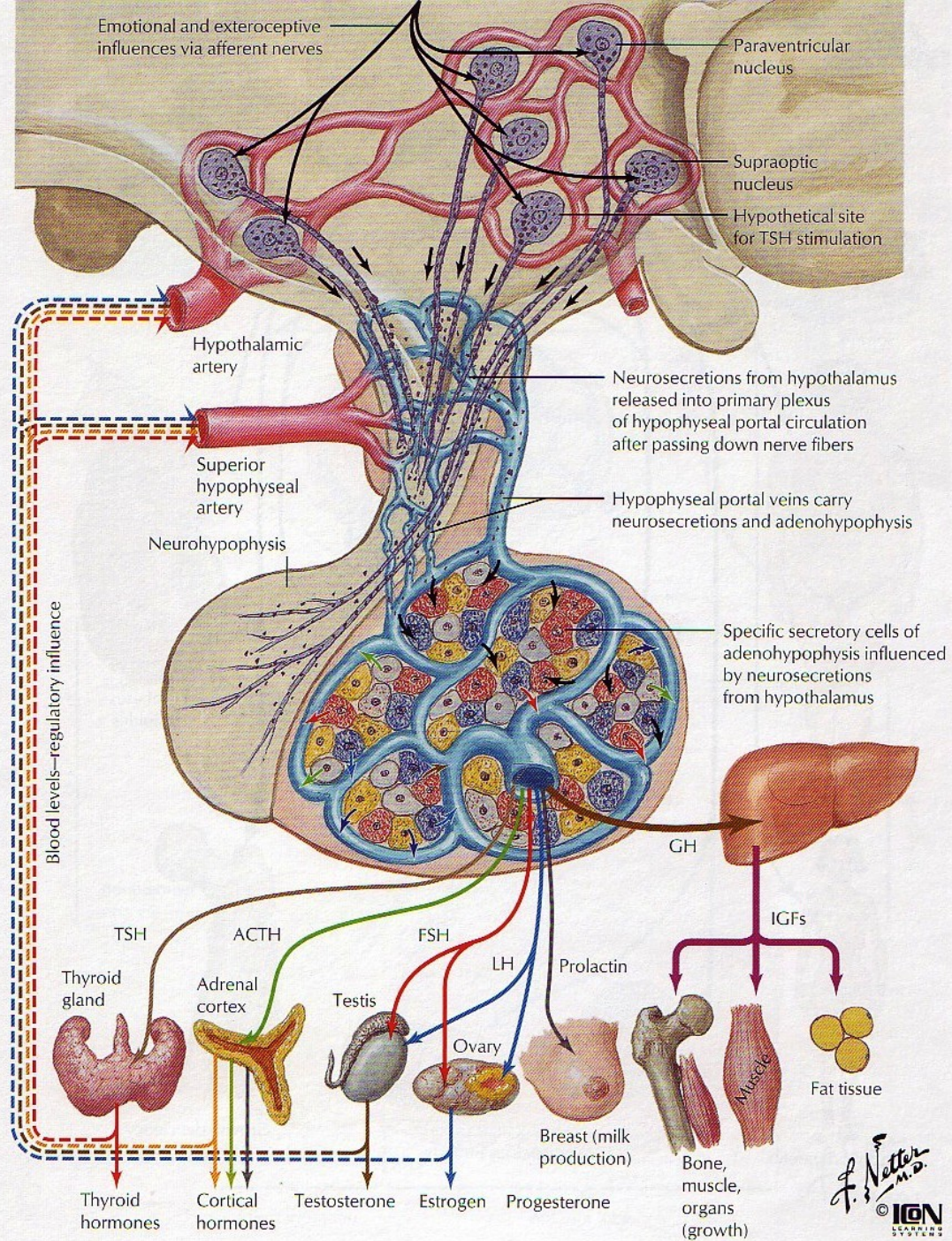




A



A



hypothalamus

statiny x liberiny

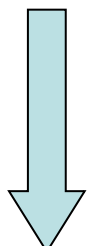
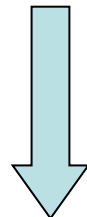
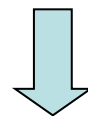
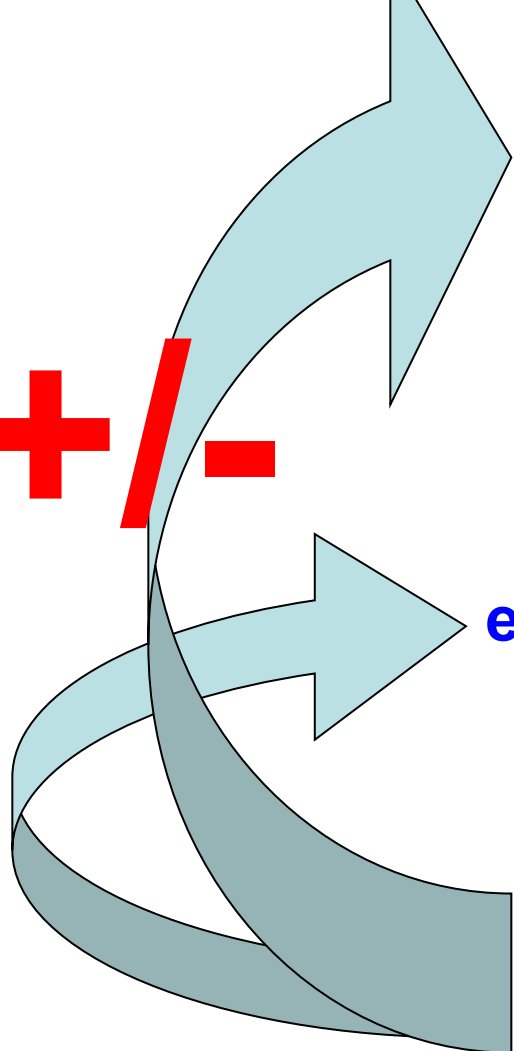
hypofýza

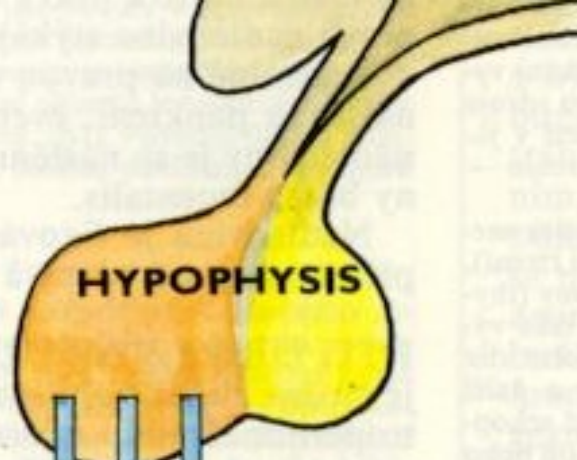
„tropní“ hormony

endokrinní žláza

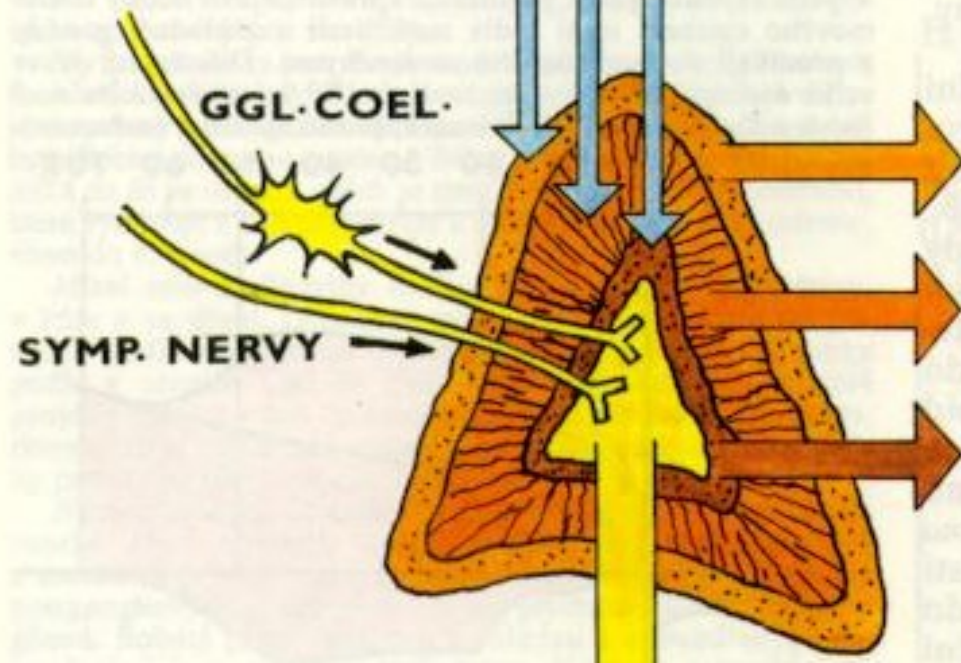
hormon

cílový orgán





ACTH



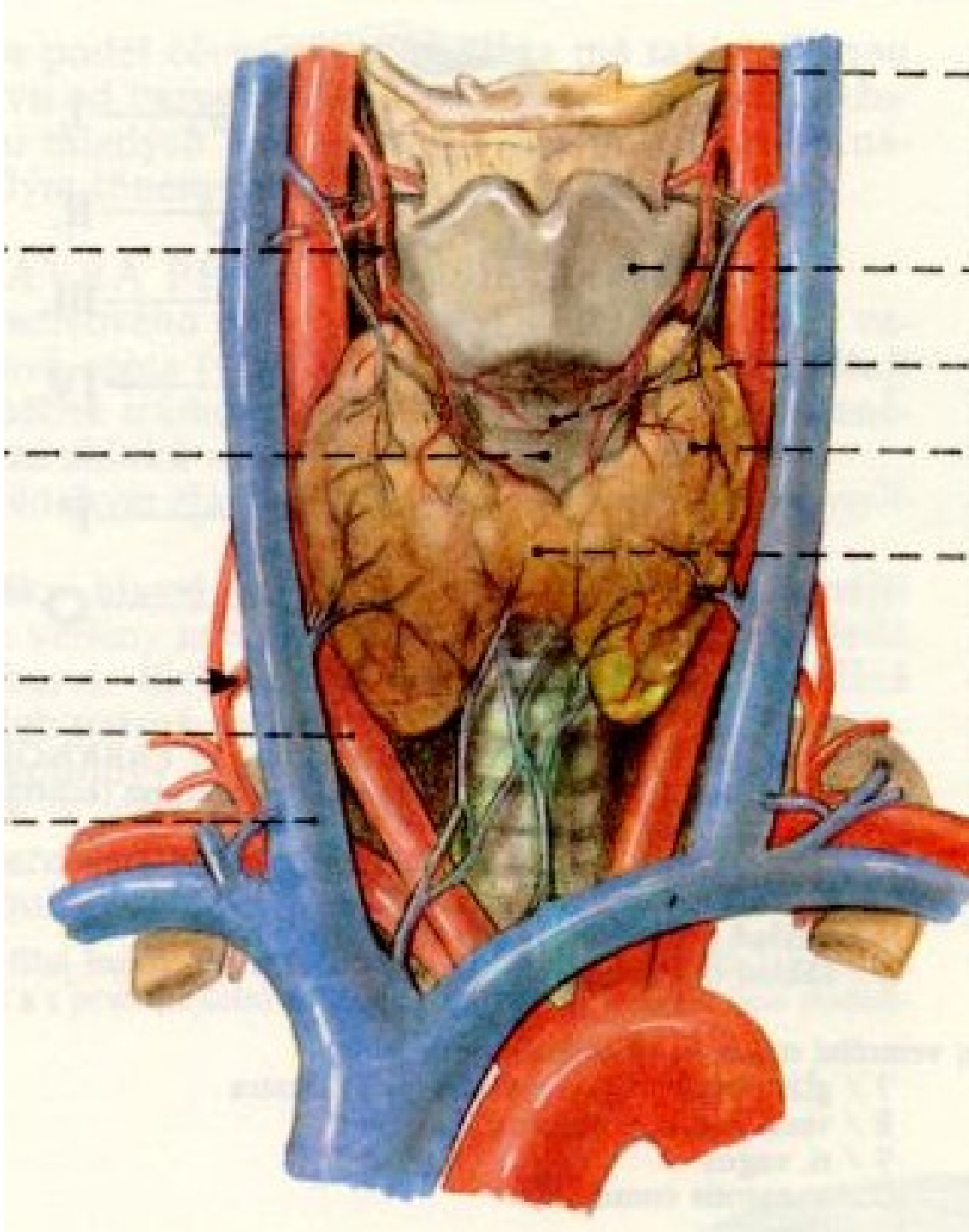
MINERALOKORTIKOIDY

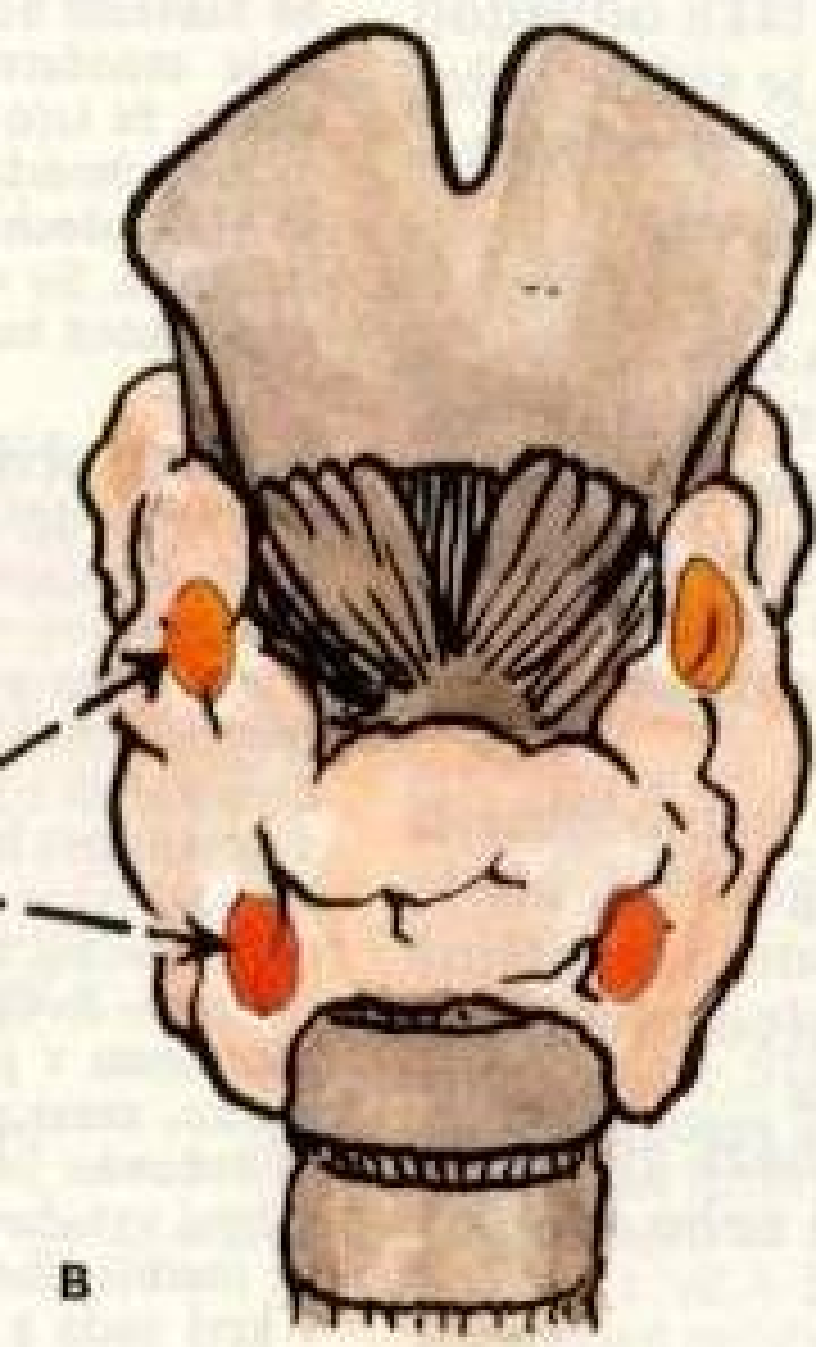
**GLUKOKORTIKOIDY
+ ANDROGENNÍ HORMONY**

**ANDROGENNÍ HORMONY
+ GLUKOKORTIKOIDY**

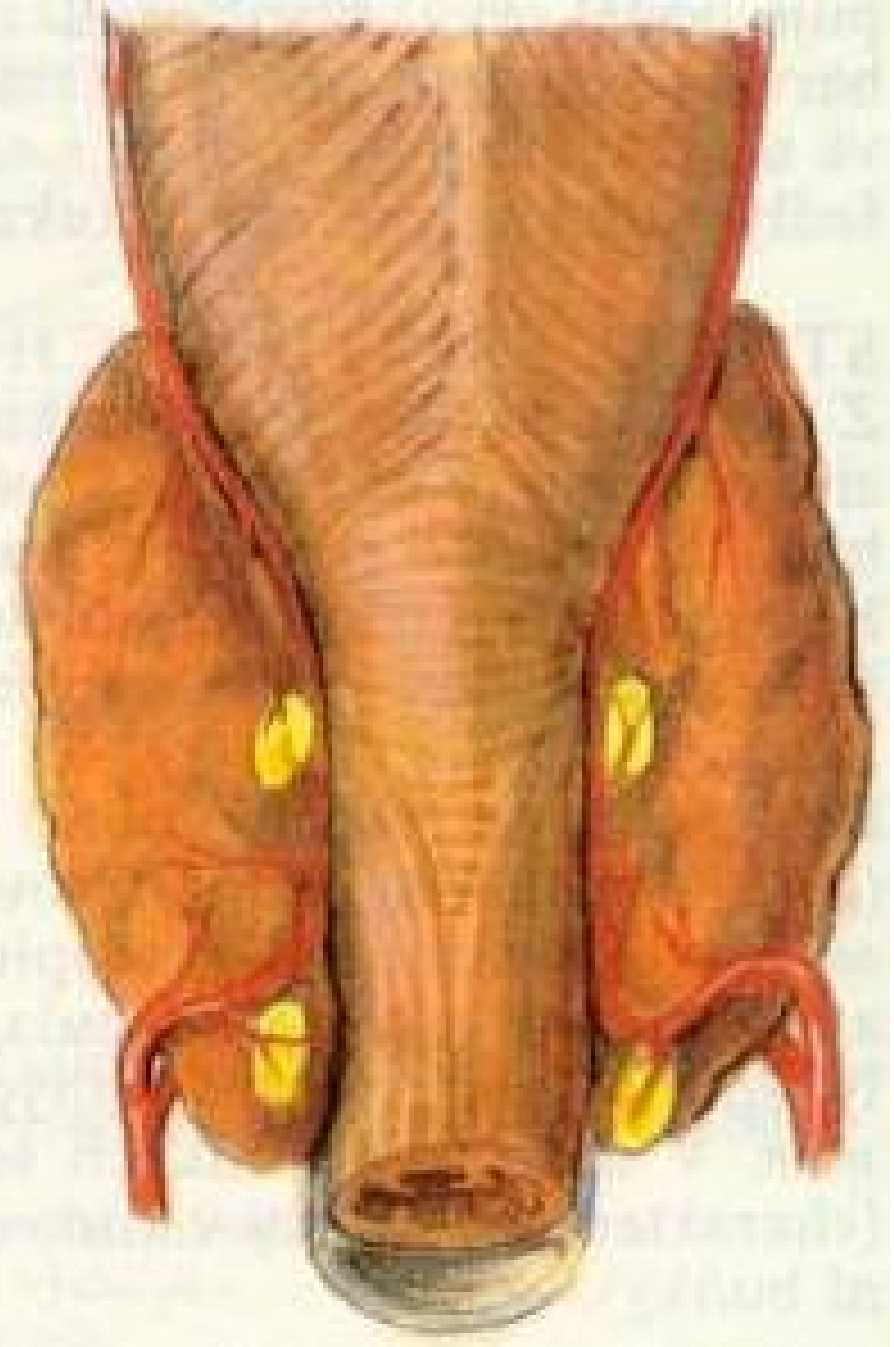
glandula thyroidea

- po stranách průdušnice a hrtanu
- pravý a levý lalok spojeny isthmem
- produkuje thyroxin a kalcitonin

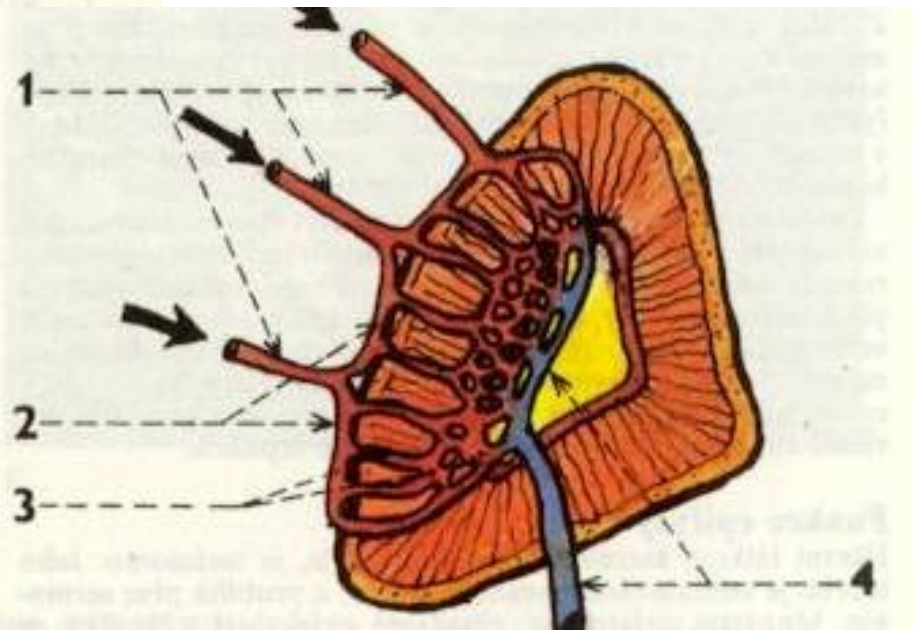
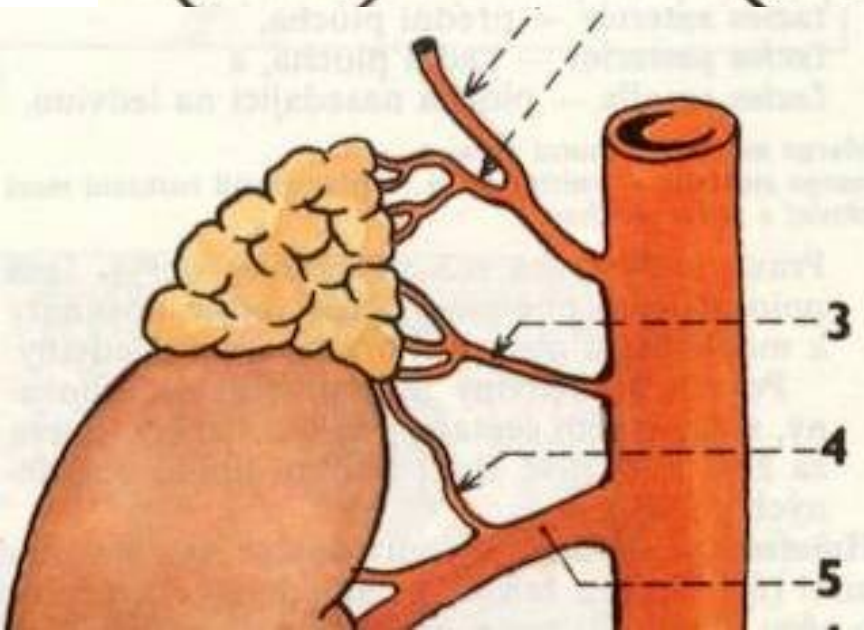
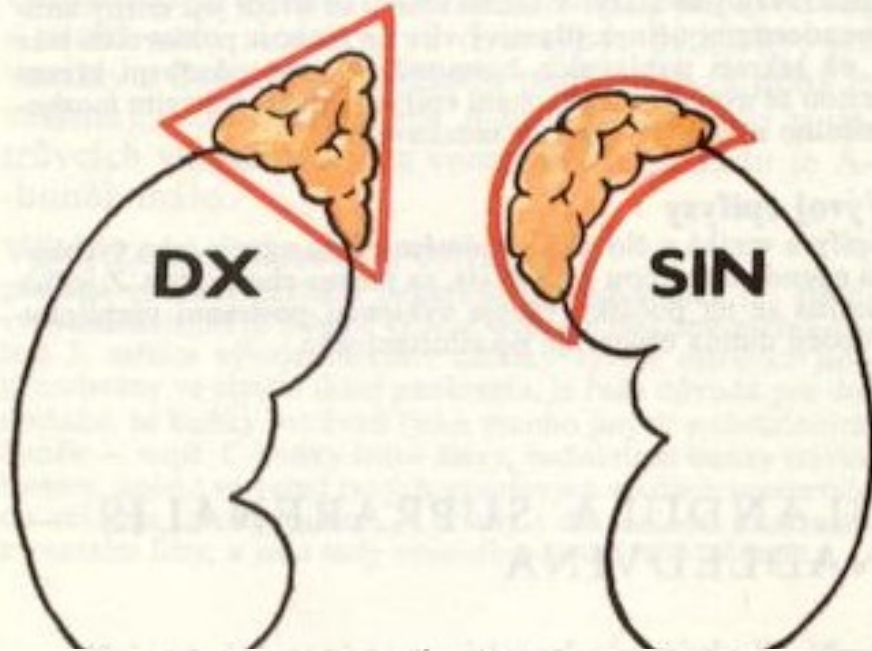


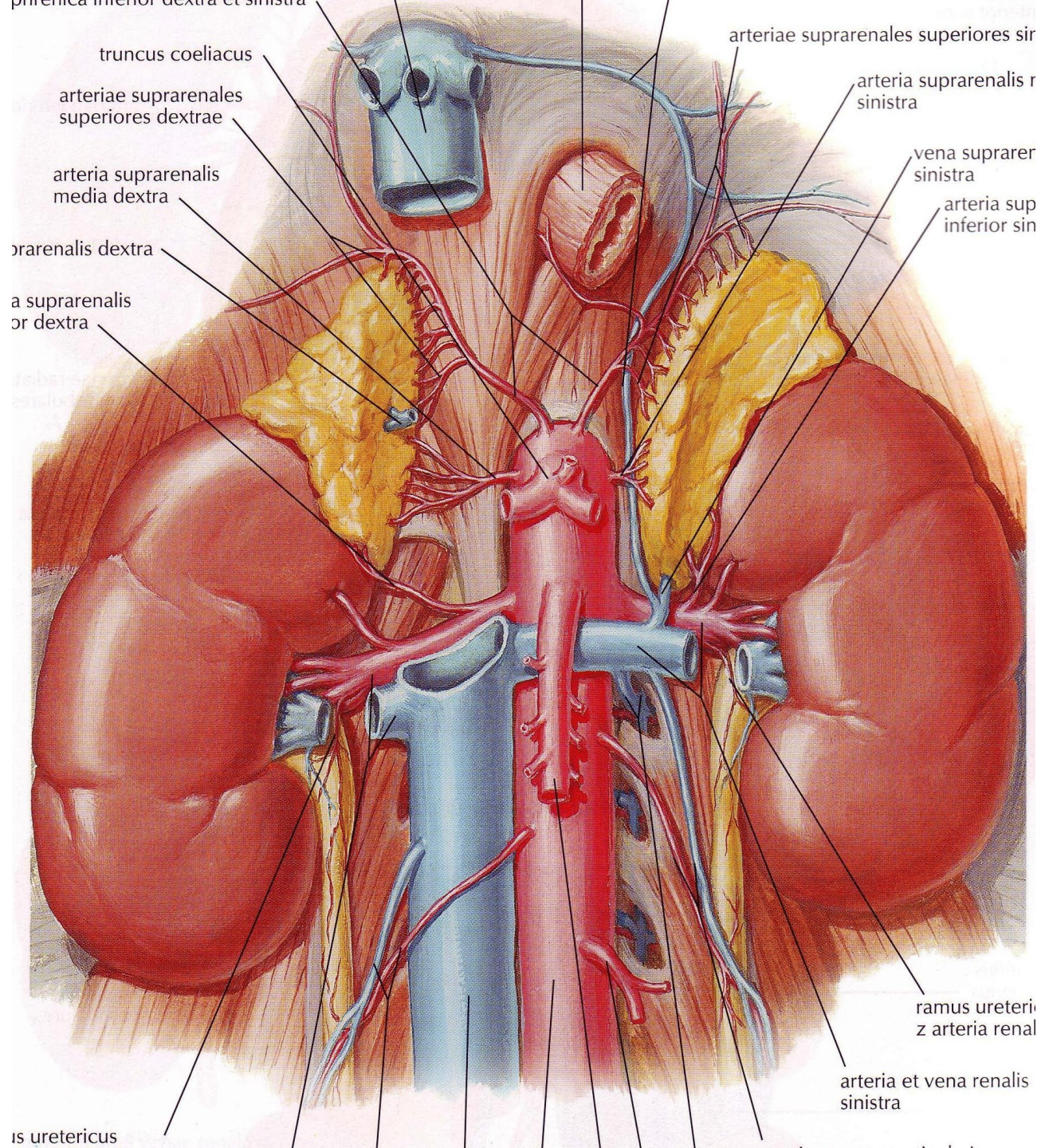


B



C



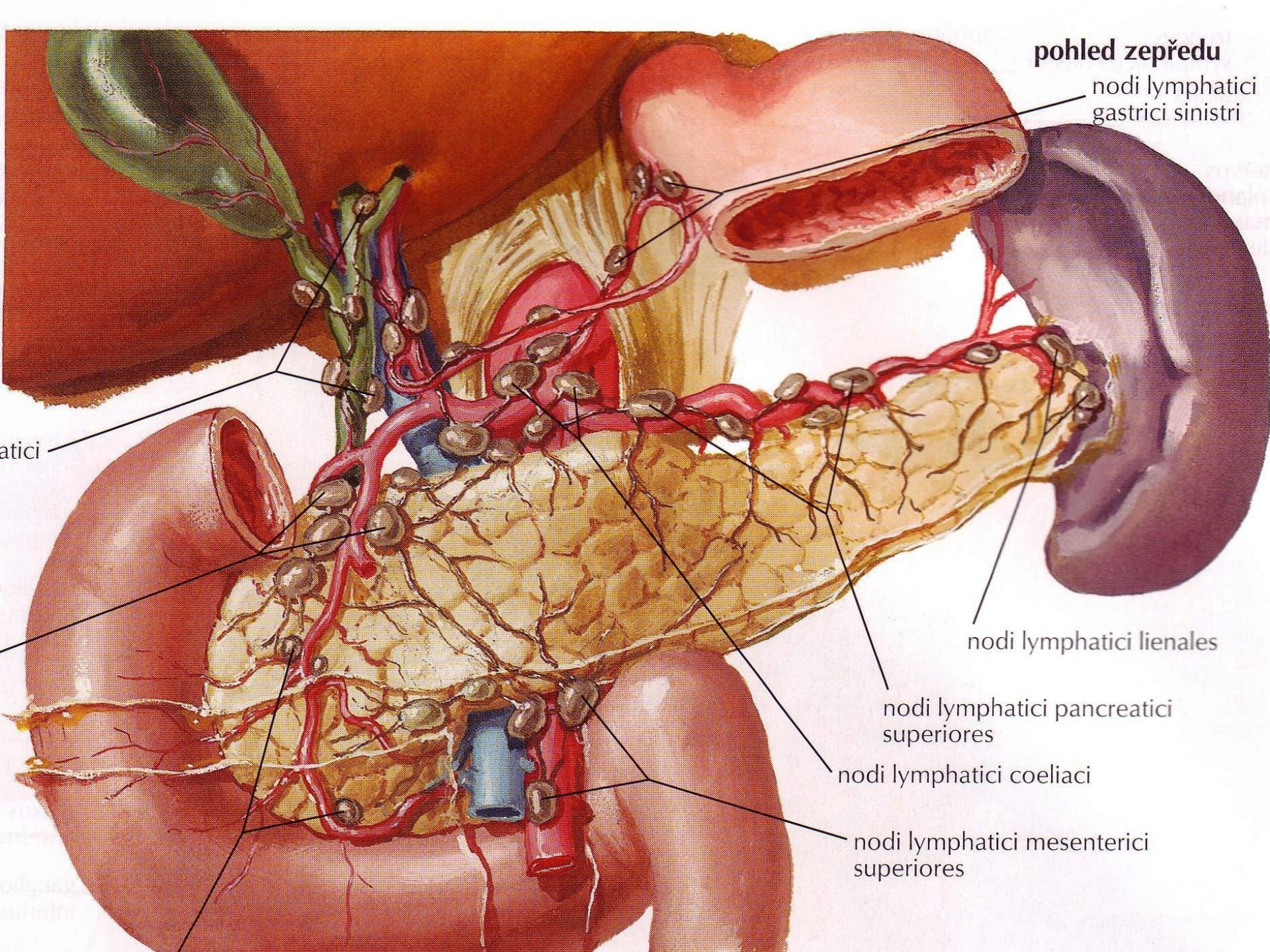


truncus coeliacus
arteriae suprarenales superiores dextrae
arteria suprarenalis media dextra
arteria suprarenalis inferior dextra
arteria suprarenalis inferior dextra

arteriae suprarenales superiores sinistrae
arteria suprarenalis sinistra
vena suprarenalis sinistra
arteria suprarenalis inferior sinistra

arteria ureterica

ramus uretericus arteria renalis
arteria et vena renalis sinistra



pohled zepředu

nodi lymphatici gastrici sinistri

atici

nodi lymphatici lienales

nodi lymphatici pancreatici superiores

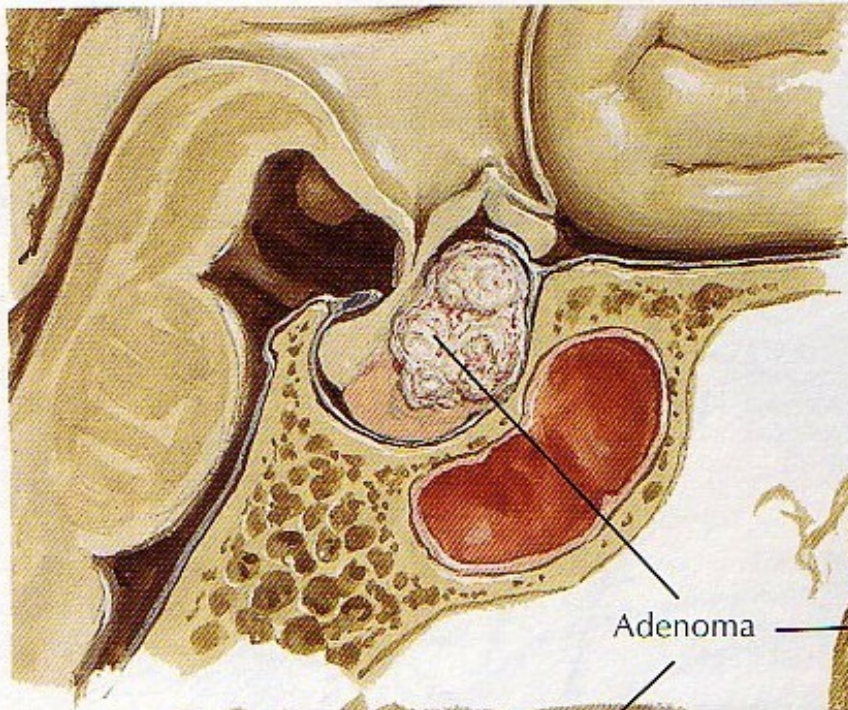
nodi lymphatici coeliaci

nodi lymphatici mesenterici superiores

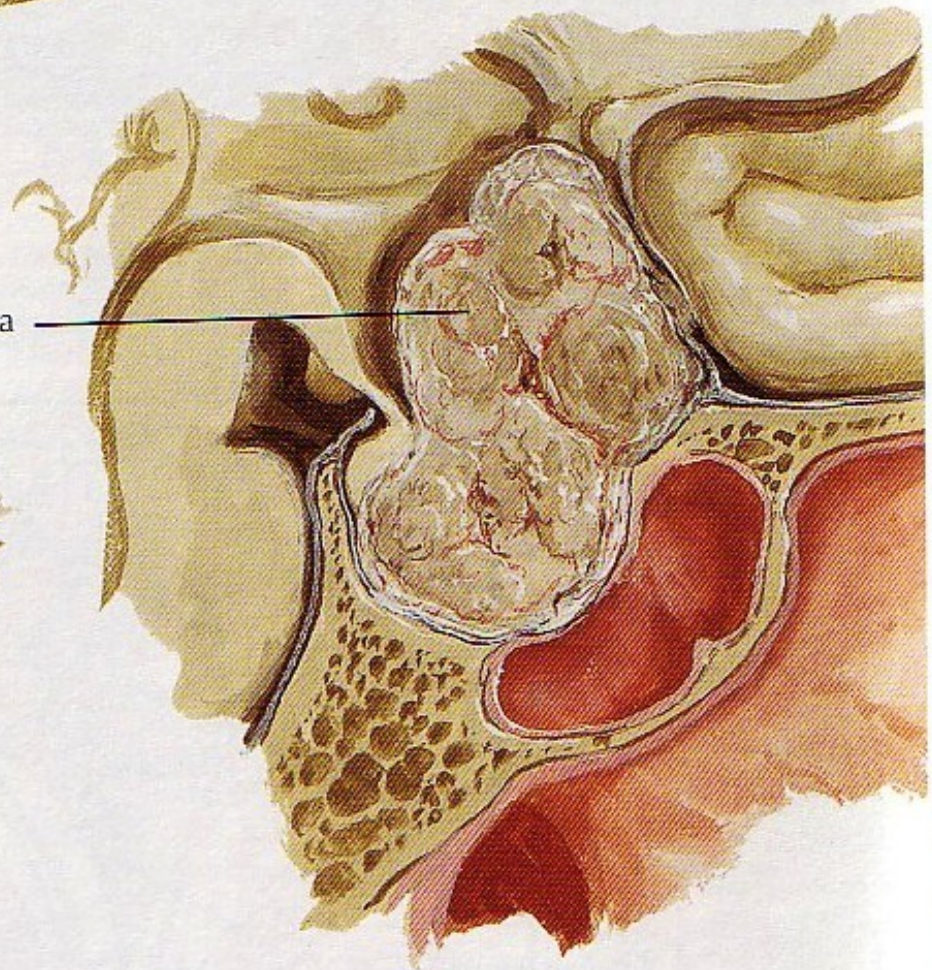
hypofýza

- hyperplázie
- adenomy
 - somatotropní adenom
 - kortikotropní adenom
 - prolaktinom
- panhypopituitarismus
- diabetes insipidus

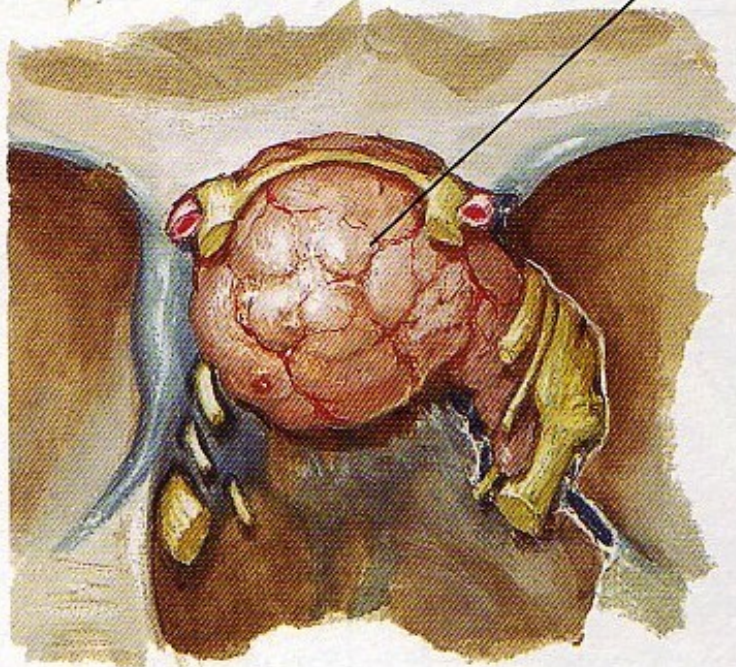
Relatively small, slow-growing adenoma.
Causing endocrine symptoms (acromegaly)
with little mechanical disturbance

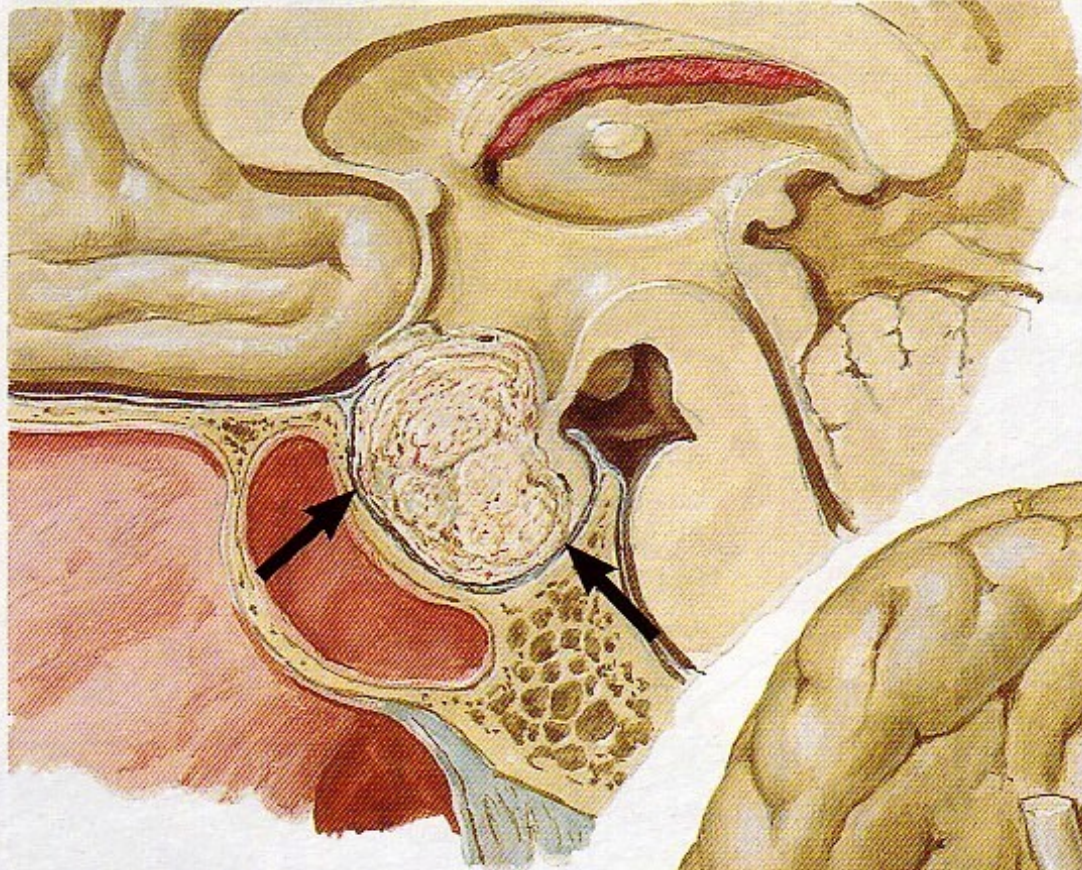


Adenoma

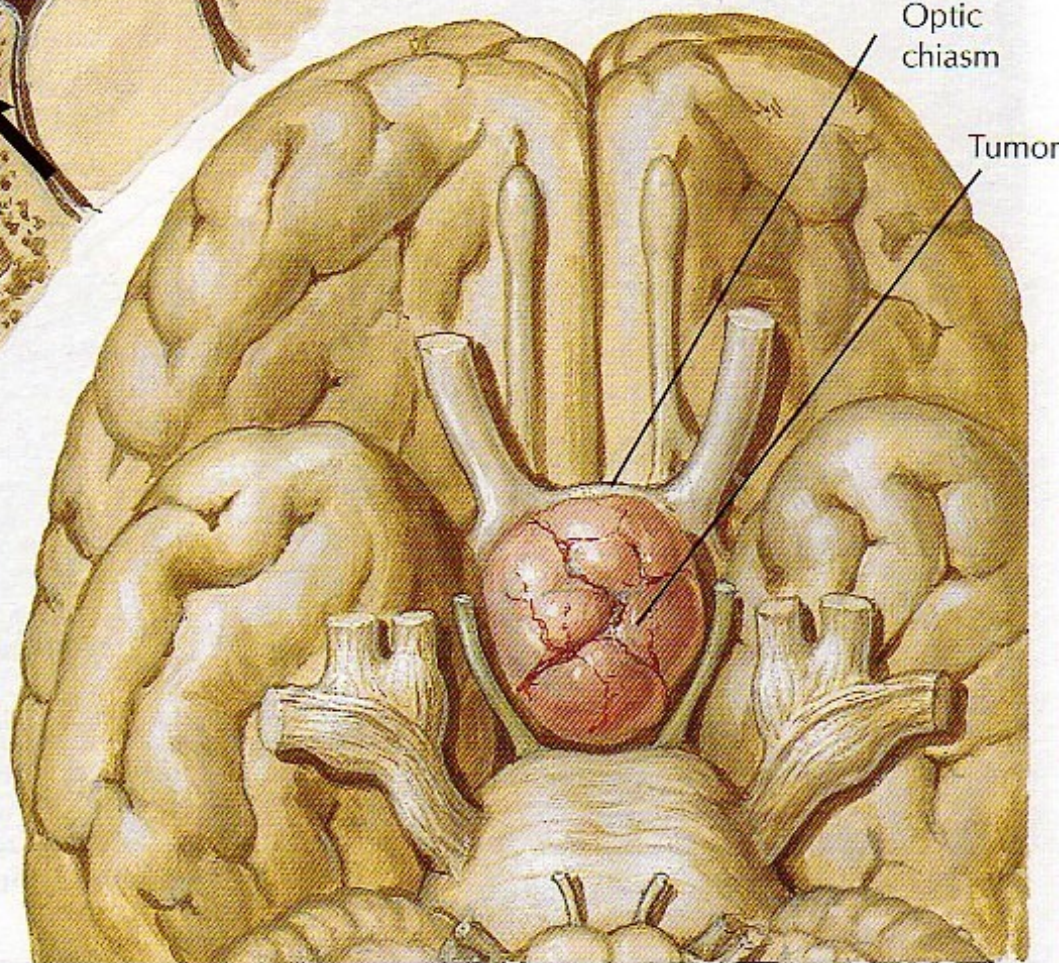
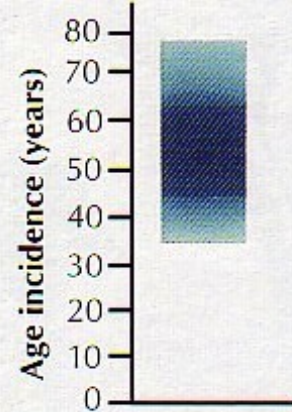


Large acidophil adenoma. Extensive
destruction of pituitary substance.





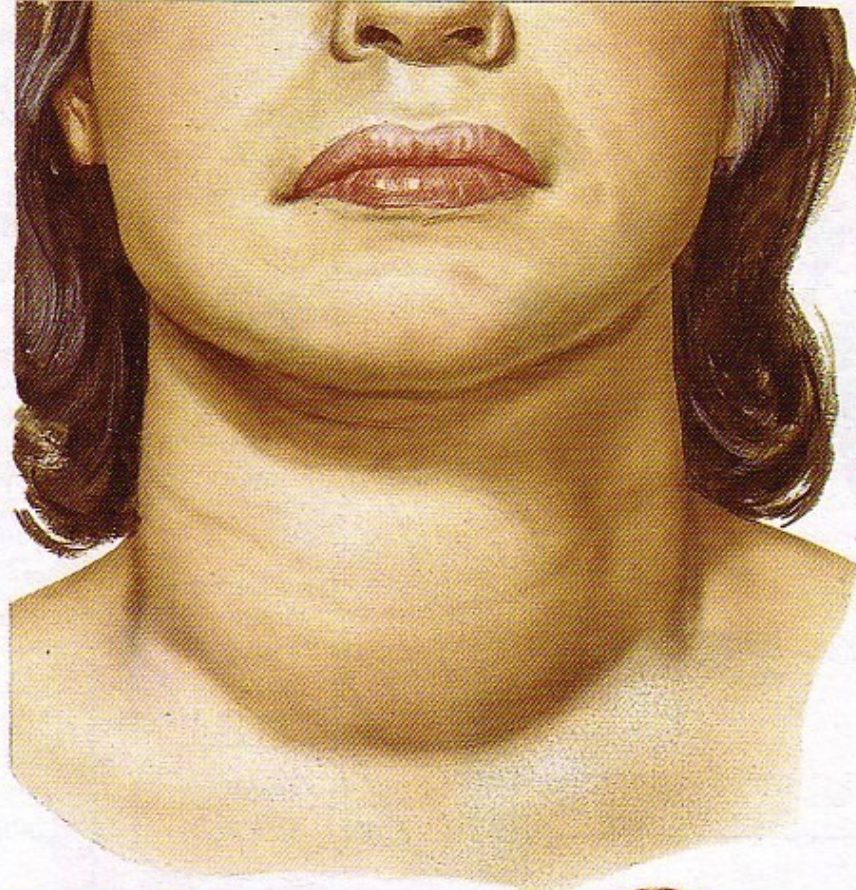
Chromophobe adenoma
enlarging sella (arrow)



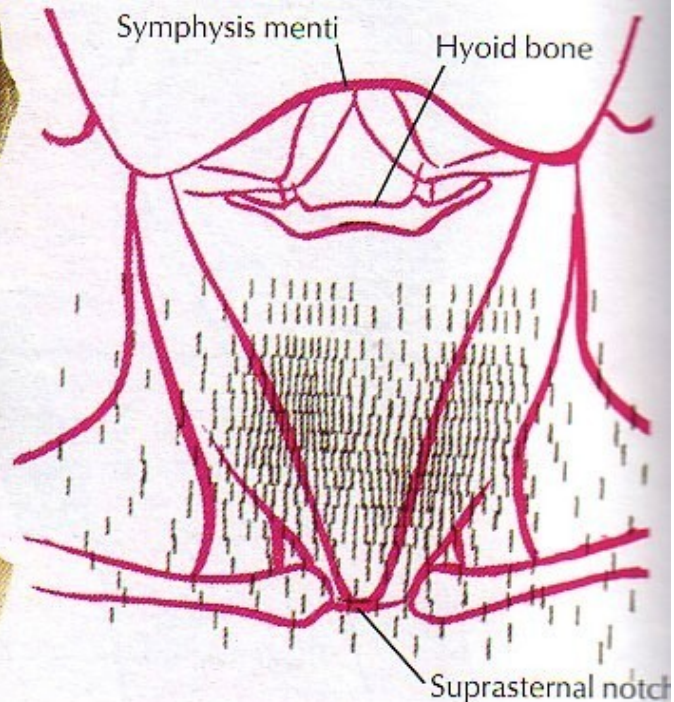
Compression of
optic chiasm by
chromophobe
tumor

gl. thyreoidea

- hyperthyreóza x hypothyreóza
- Hashimotova thyreoiditida
- Graves-Basedowa nemoc
- struma
- adenomy x karcinomy

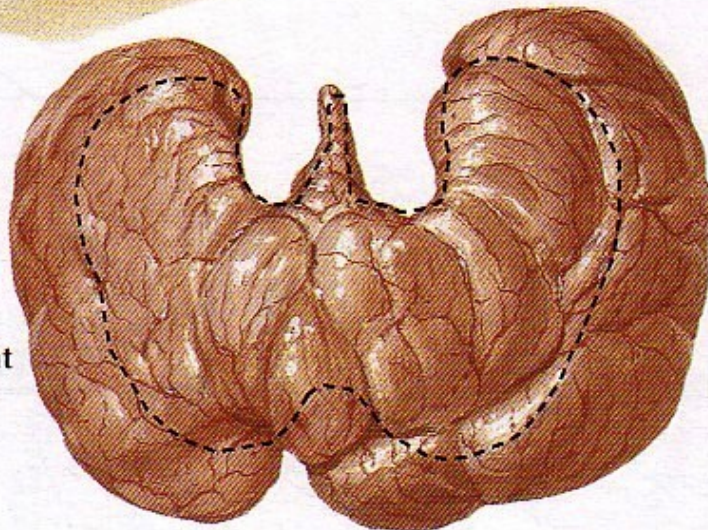


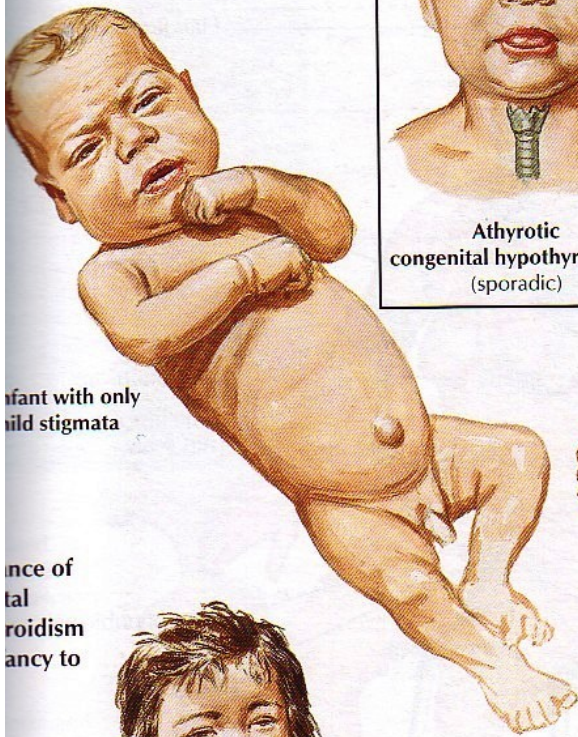
Diffuse goiter of moderate size



Scintigram

Diffuse enlargement and engorgement of thyroid gland.
(Broken line indicates normal size of gland.)

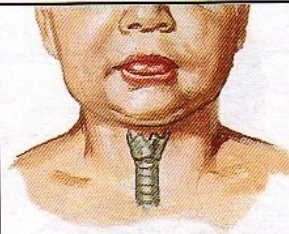




Infant with only mild stigmata



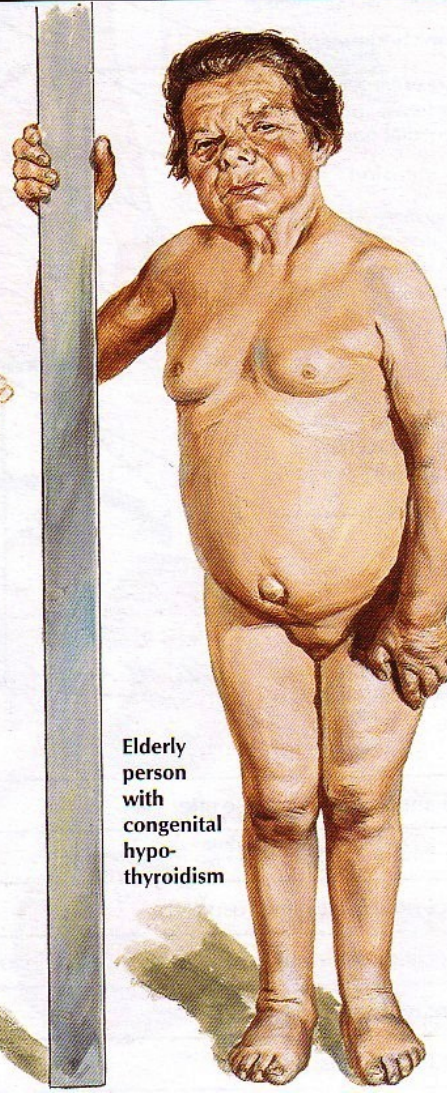
Young child with marked stigmata



Athyrotic congenital hypothyroidism (sporadic)



Goitrous congenital hypothyroidism (endemic)



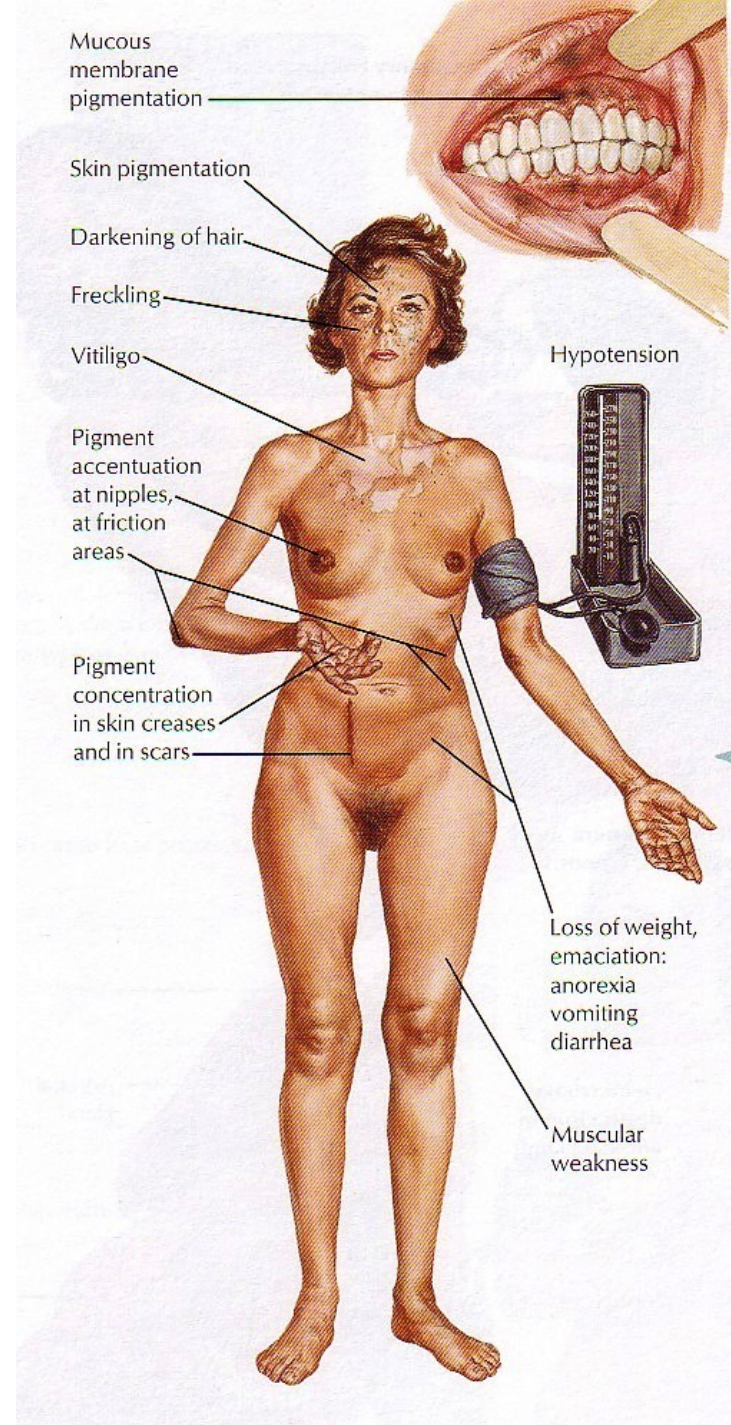
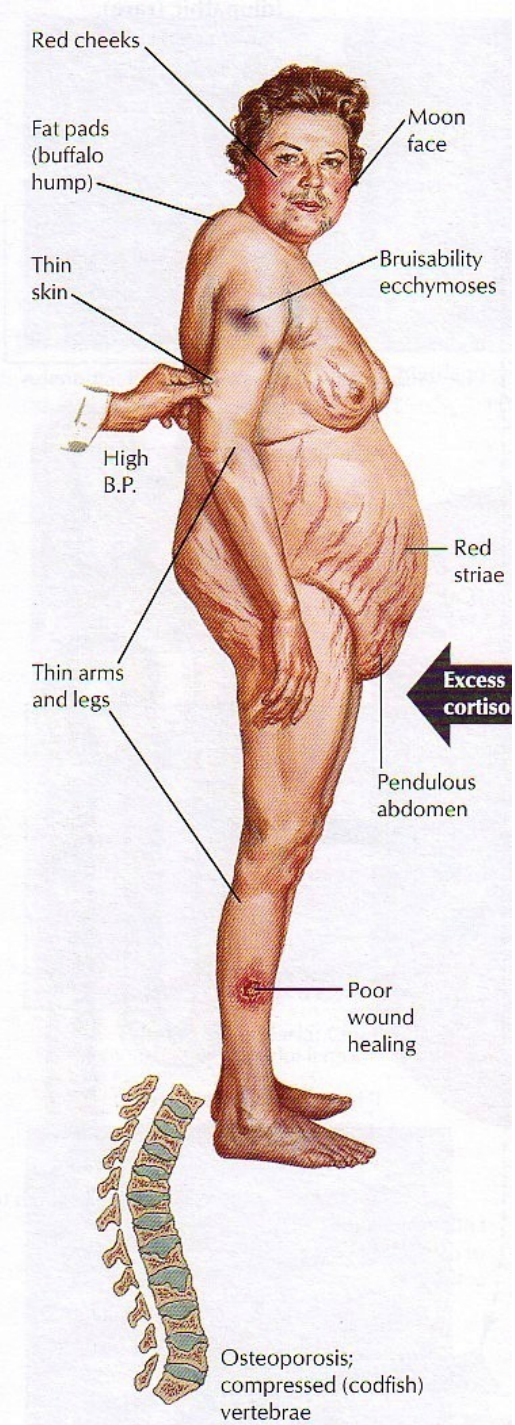
Elderly person with congenital hypothyroidism

příštítná tělíska

- hypoparathyreoidismus
- hyperparathyreoidismus

nadledviny

- adrenokortikální syndromy
 - Addisonova choroba
 - adrenogenitální syndrom
 - Cushingův syndrom
 - Connův syndrom



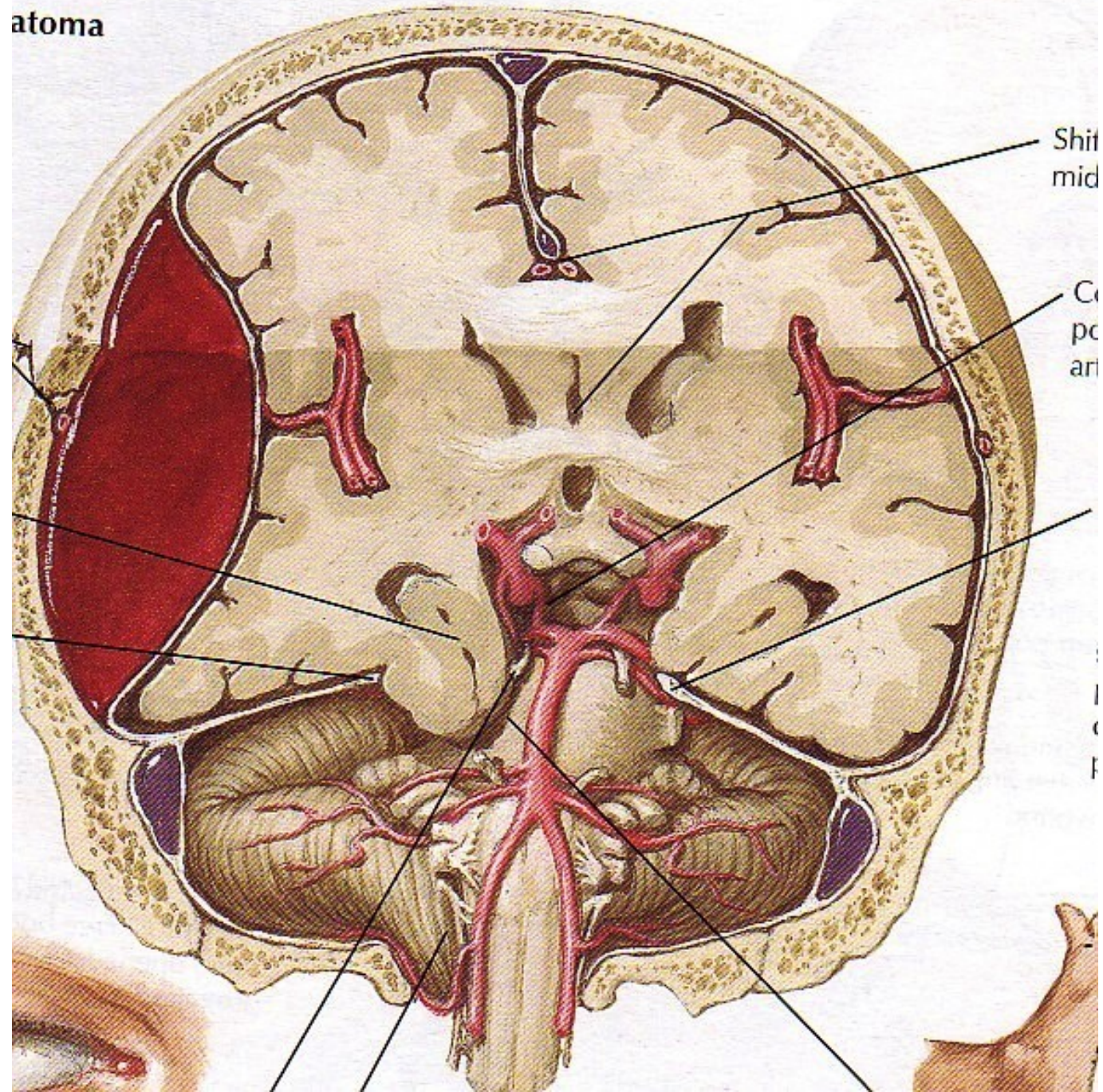
pankreas

- DM
- nesidiomy
insulinom, VIPom, gastrinom,
glukagonom

patologie CNS

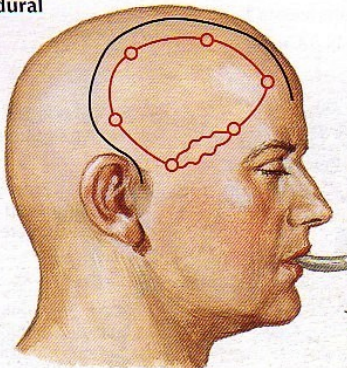
- krvácení
 - epidurální
 - subdurální
 - subarachnoideální
 - intracerebrální

atoma



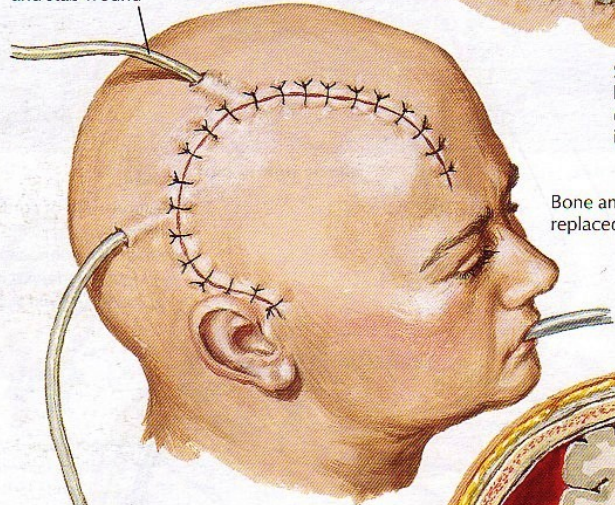
Shit
mid

Ca
pe
ari

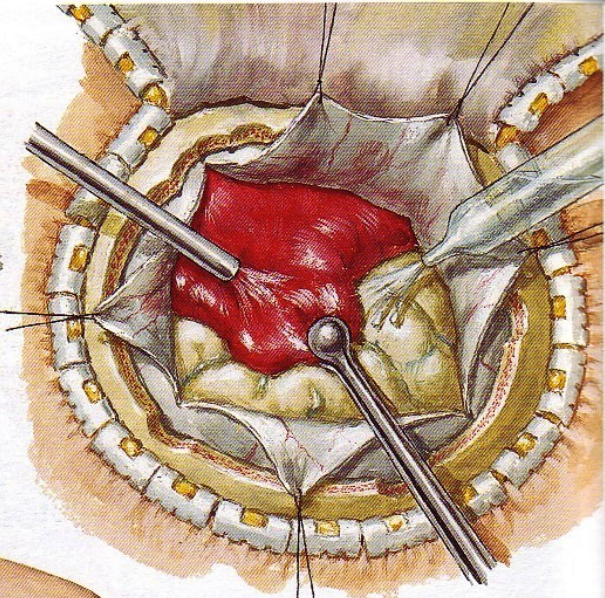


"Question mark" skin incision (black); outline of free bone flap and burr holes (red)

Catheter to monitor intracranial pressure, emerging through burr hole and stab wound

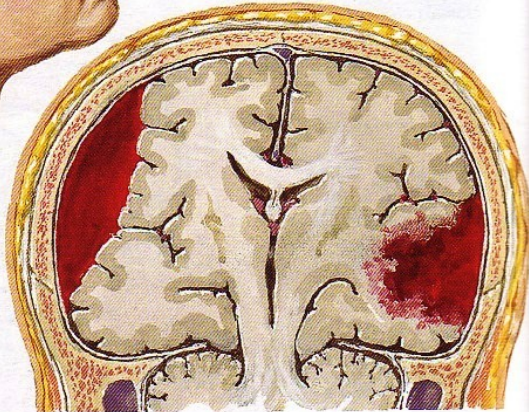


Jackson-Pratt drain, emerging from subdural space via burr hole and stab wound

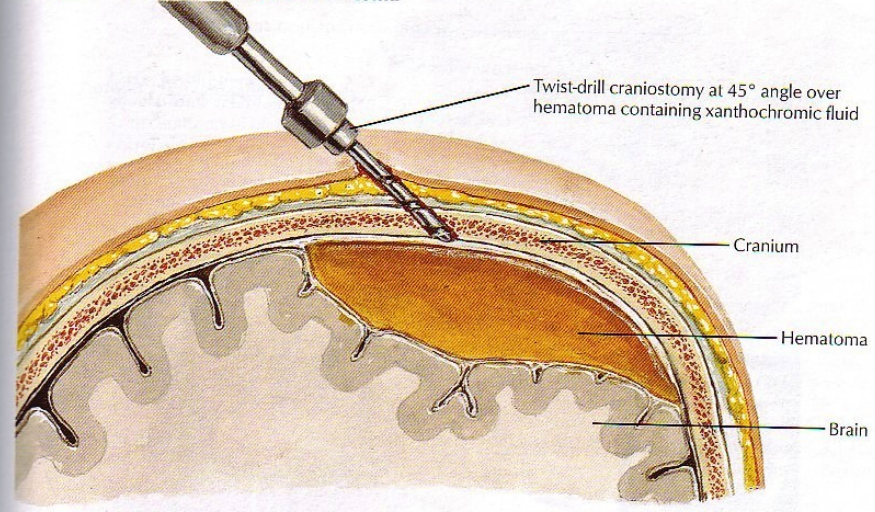


Skin flap reflected (Raney clips control bleeding). Free bone flap removed and dura opened. Clot evacuated by irrigation, suction, and forceps.

Bone and skin flaps replaced and sutured



Skull and brain section. Acute subdural hematoma on right side and subdural hematoma associated with temporal lobe intracerebral hematoma ("burst" temporal lobe) on left

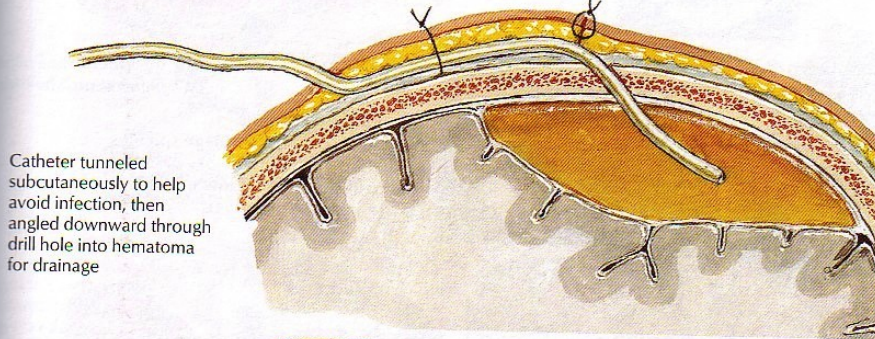


Twist-drill craniostomy at 45° angle over hematoma containing xanthochromic fluid

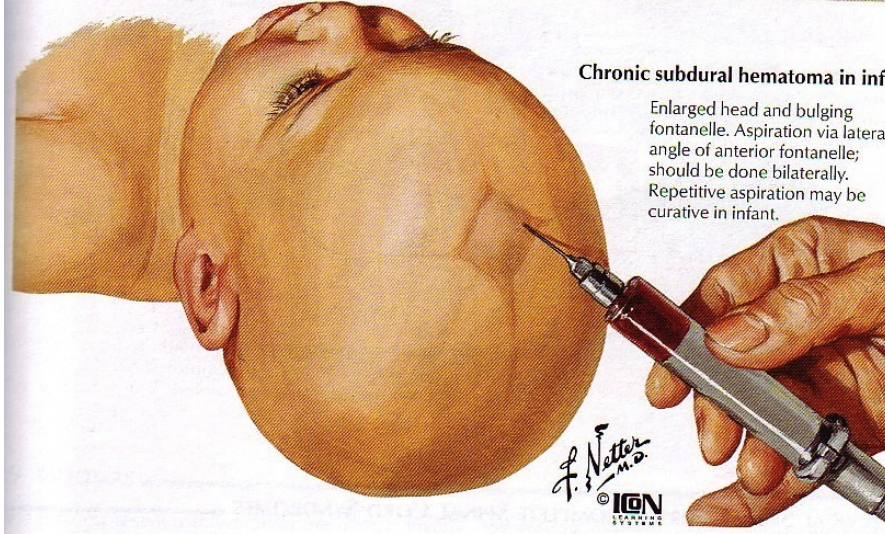
Cranium

Hematoma

Brain



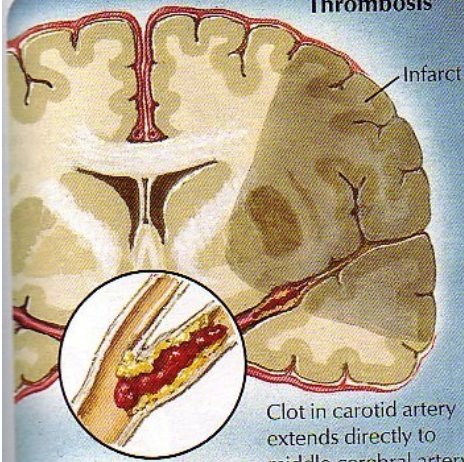
Catheter tunneled subcutaneously to help avoid infection, then angled downward through drill hole into hematoma for drainage



Chronic subdural hematoma in infant

Enlarged head and bulging fontanelle. Aspiration via lateral angle of anterior fontanelle; should be done bilaterally. Repetitive aspiration may be curative in infant.

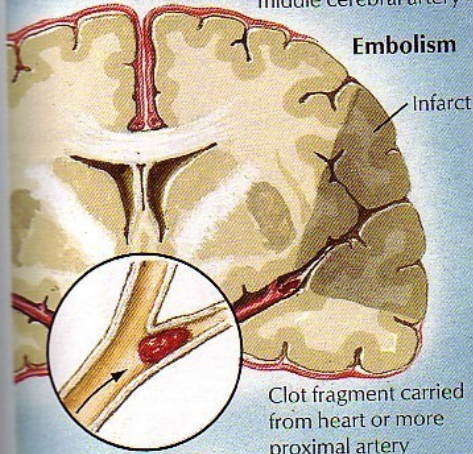
Thrombosis



Infarct

Clot in carotid artery extends directly to middle cerebral artery

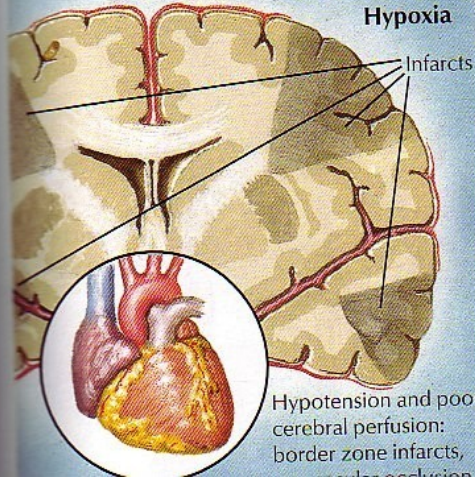
Embolism



Infarct

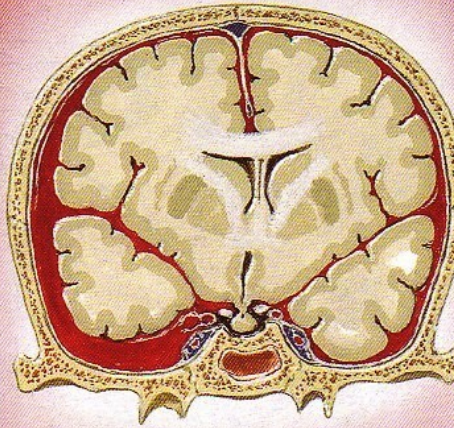
Clot fragment carried from heart or more proximal artery

Hypoxia

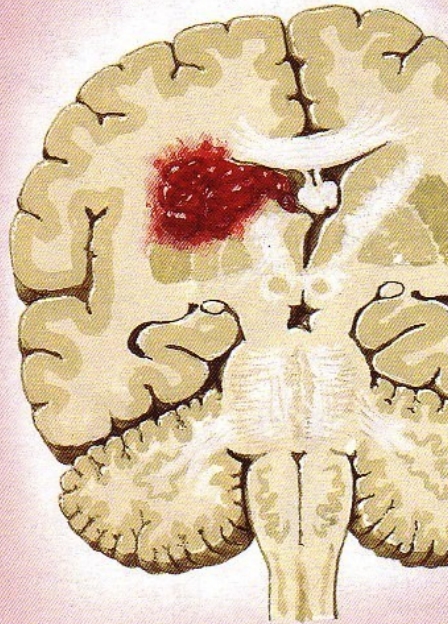


Infarcts

Hypotension and poor cerebral perfusion: border zone infarcts, multiple occlusion



Subarachnoid hemorrhage
(ruptured aneurysm)



Intracerebral hemorrhage
(hypertensive)

F. Netter M.D.

© IGCN

