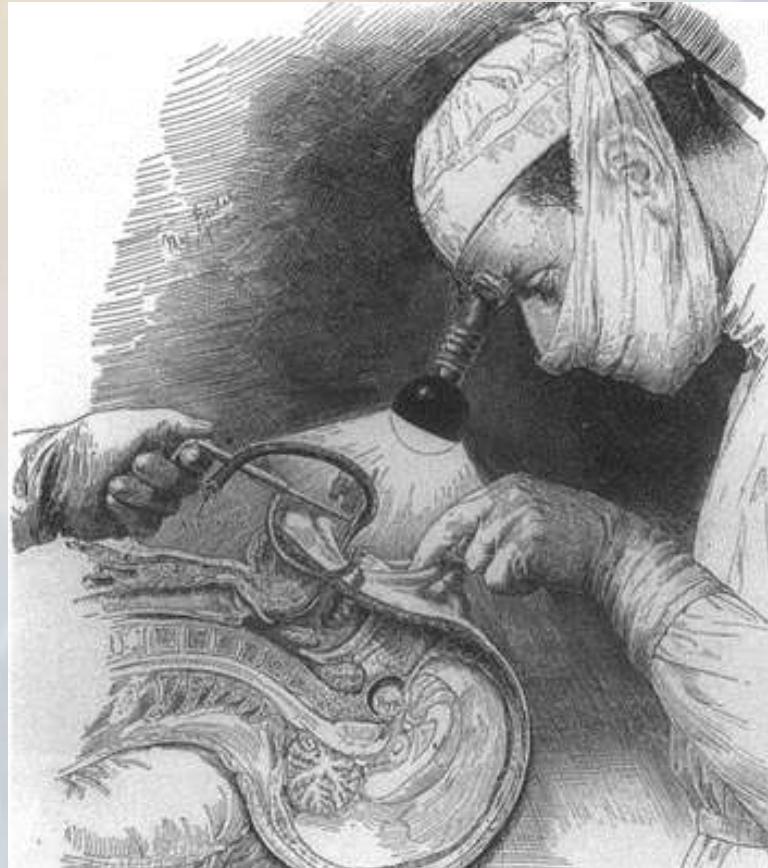


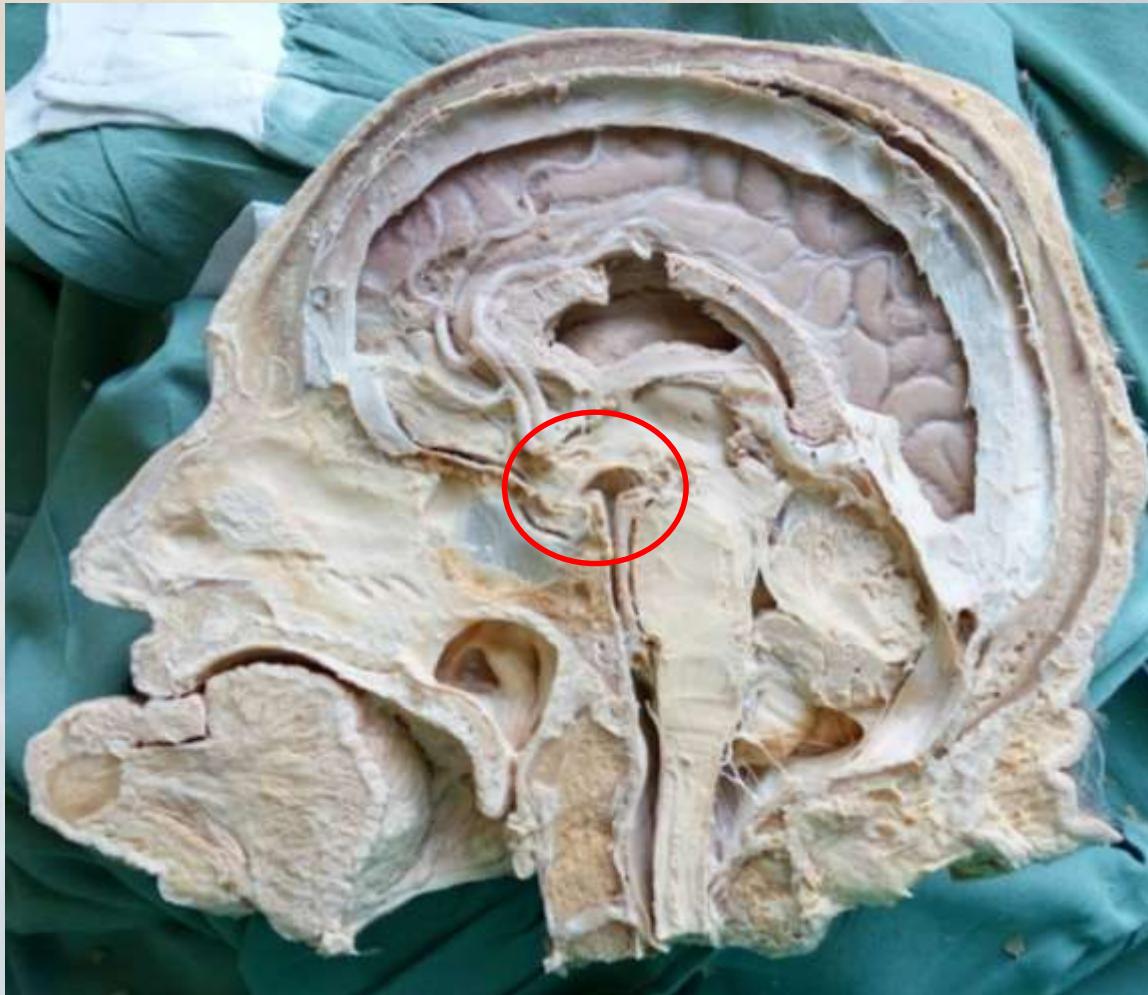
Hypofýza: základy anatomie



Malucelli A, Bartoš R, Sameš M

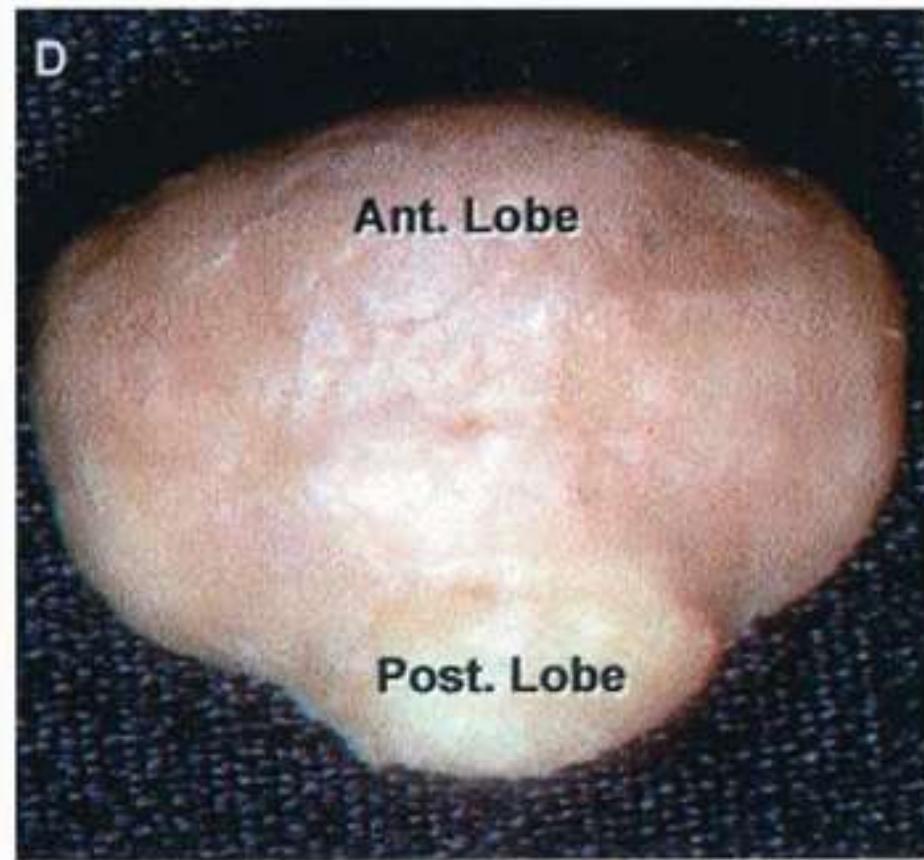
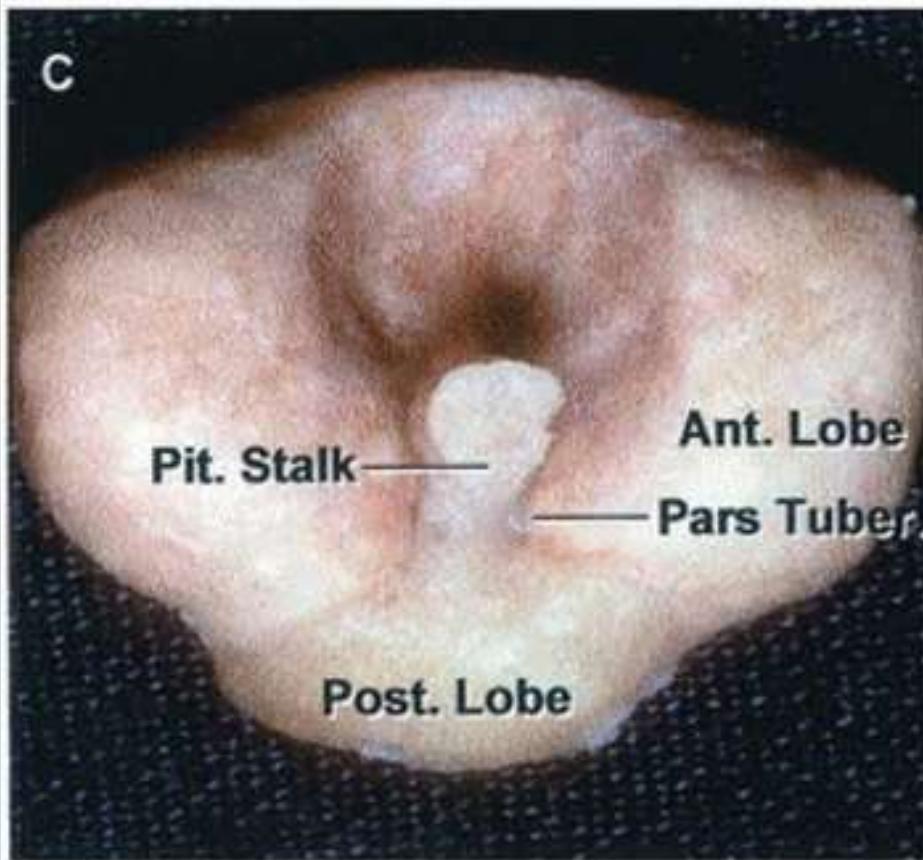
Neurochirurgická klinika, Anatomická Laboratoř Báze Lební
Masarykova Nemocnice, Univerzita J.E. Purkyně, Ústí nad Labem

Hypofýza: základy anatomie



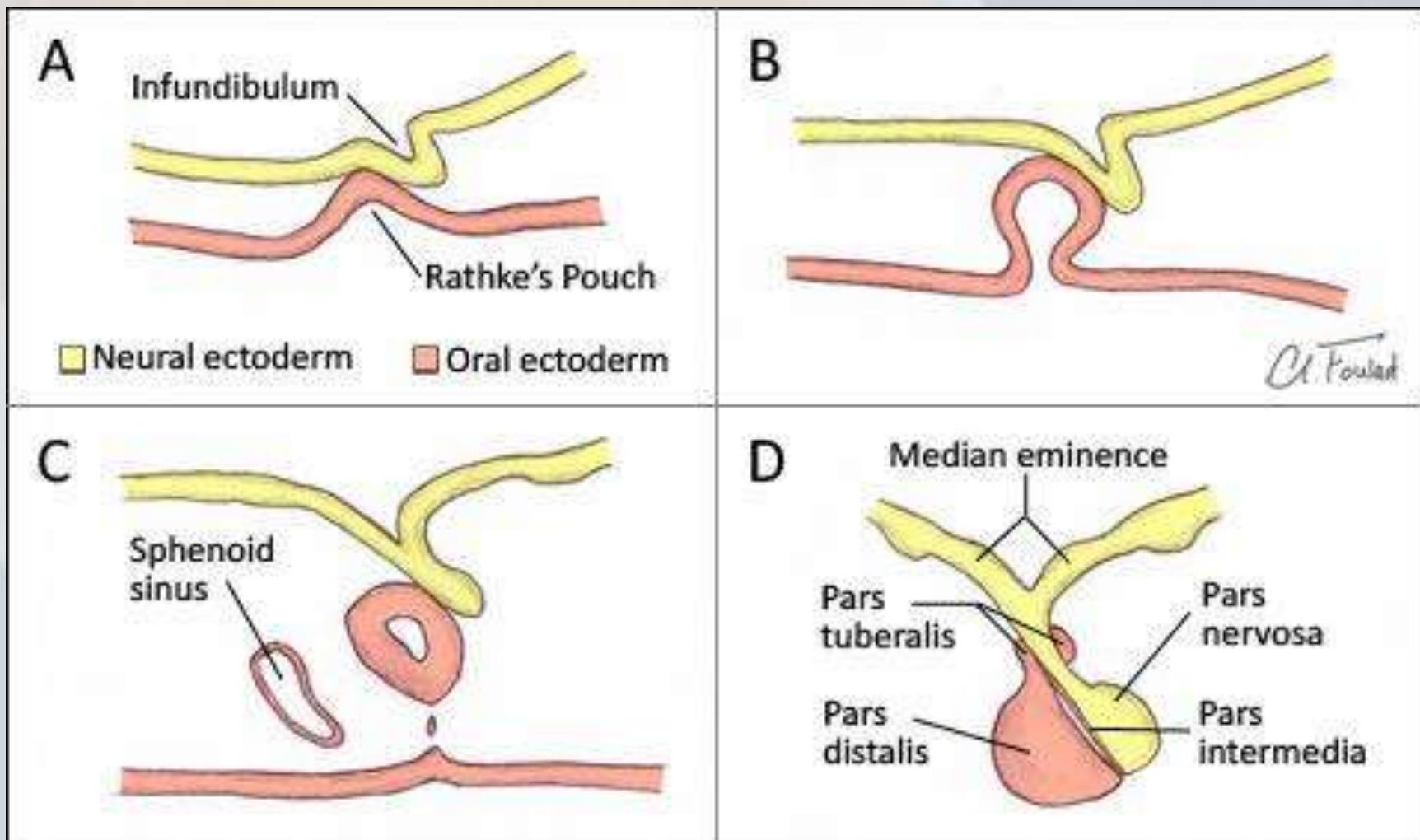
Ύπό- (hypo-) = pod
φύειν (phyein) = růst

Hypofýza: základy anatomie



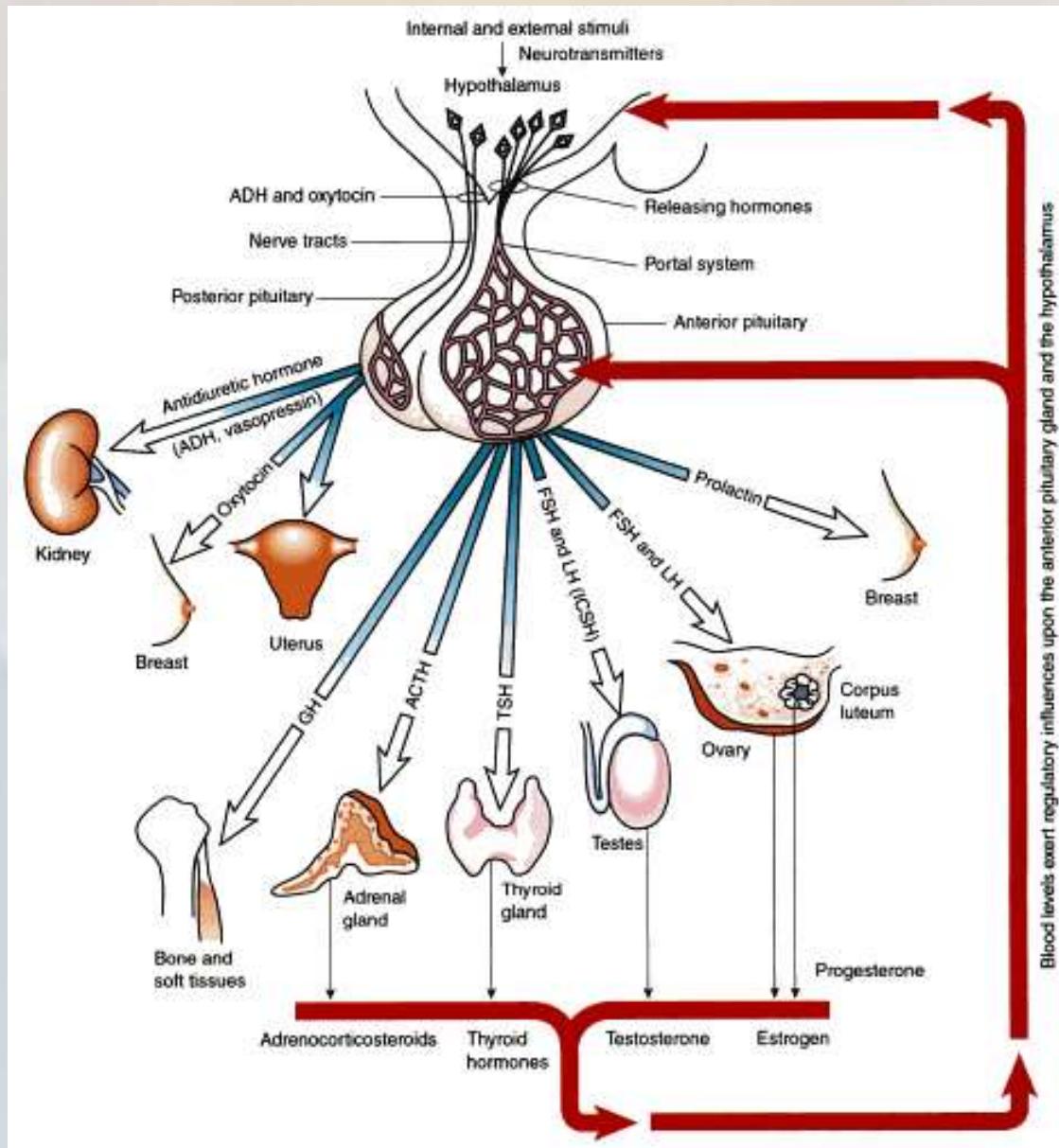
Dvoulaločnatá architektura

Hypofýza: základy anatomie



Orální a neurální původ

Hypofýza: funkce



Adenohypofýza:

FSH

LH

ACTH

TSH

PRL

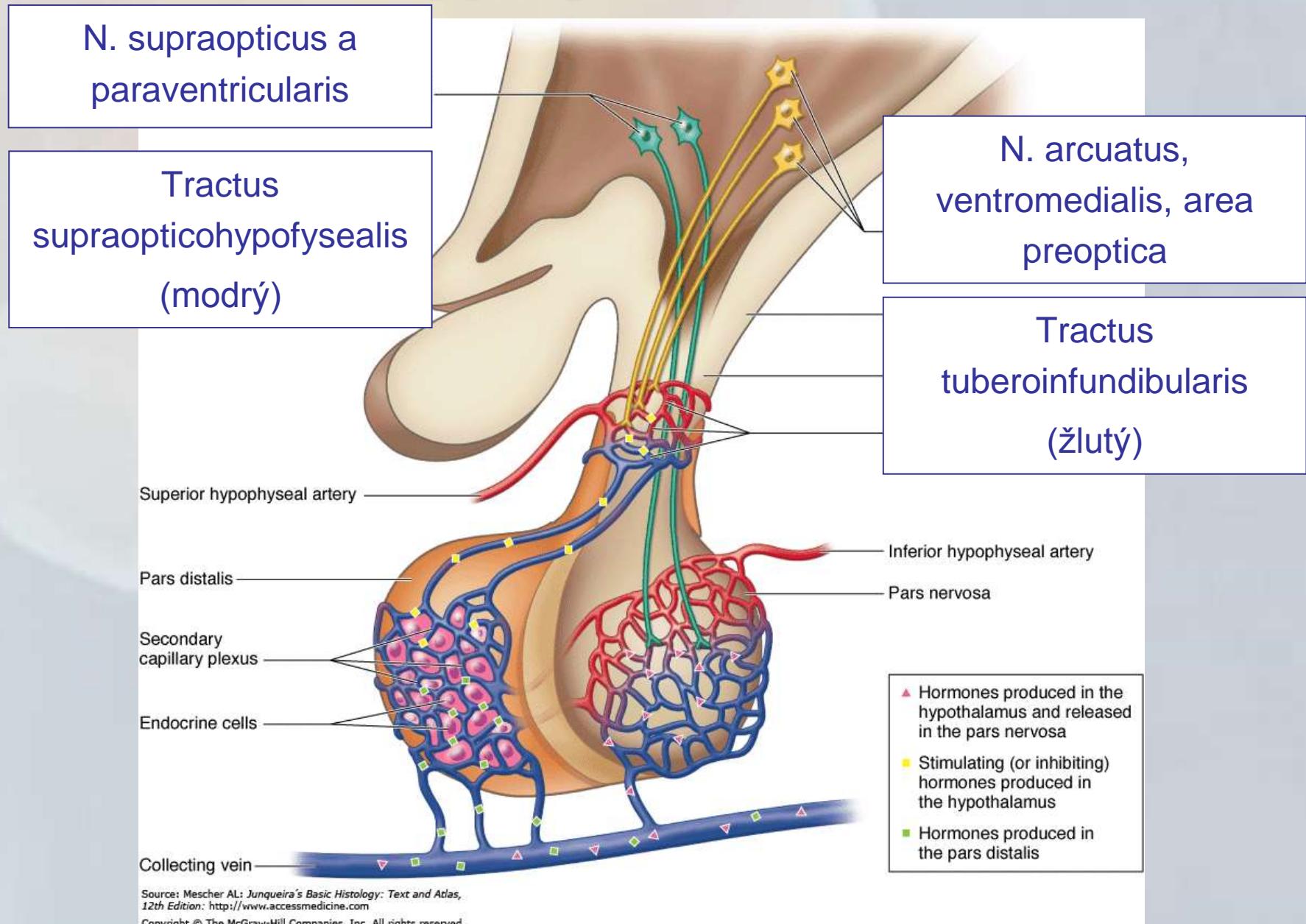
STH

Neurohypofýza:

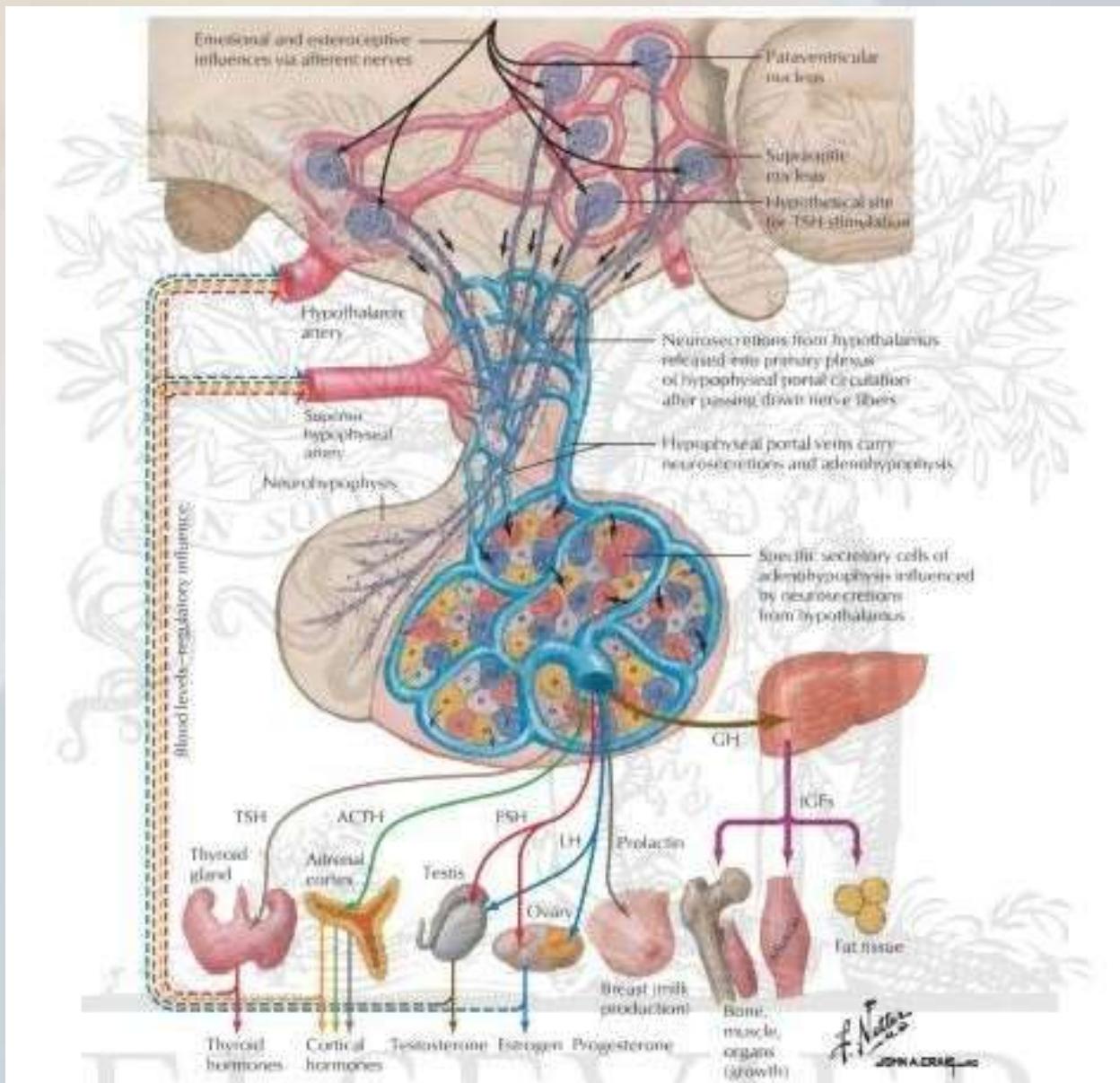
Oxytocin

ADH

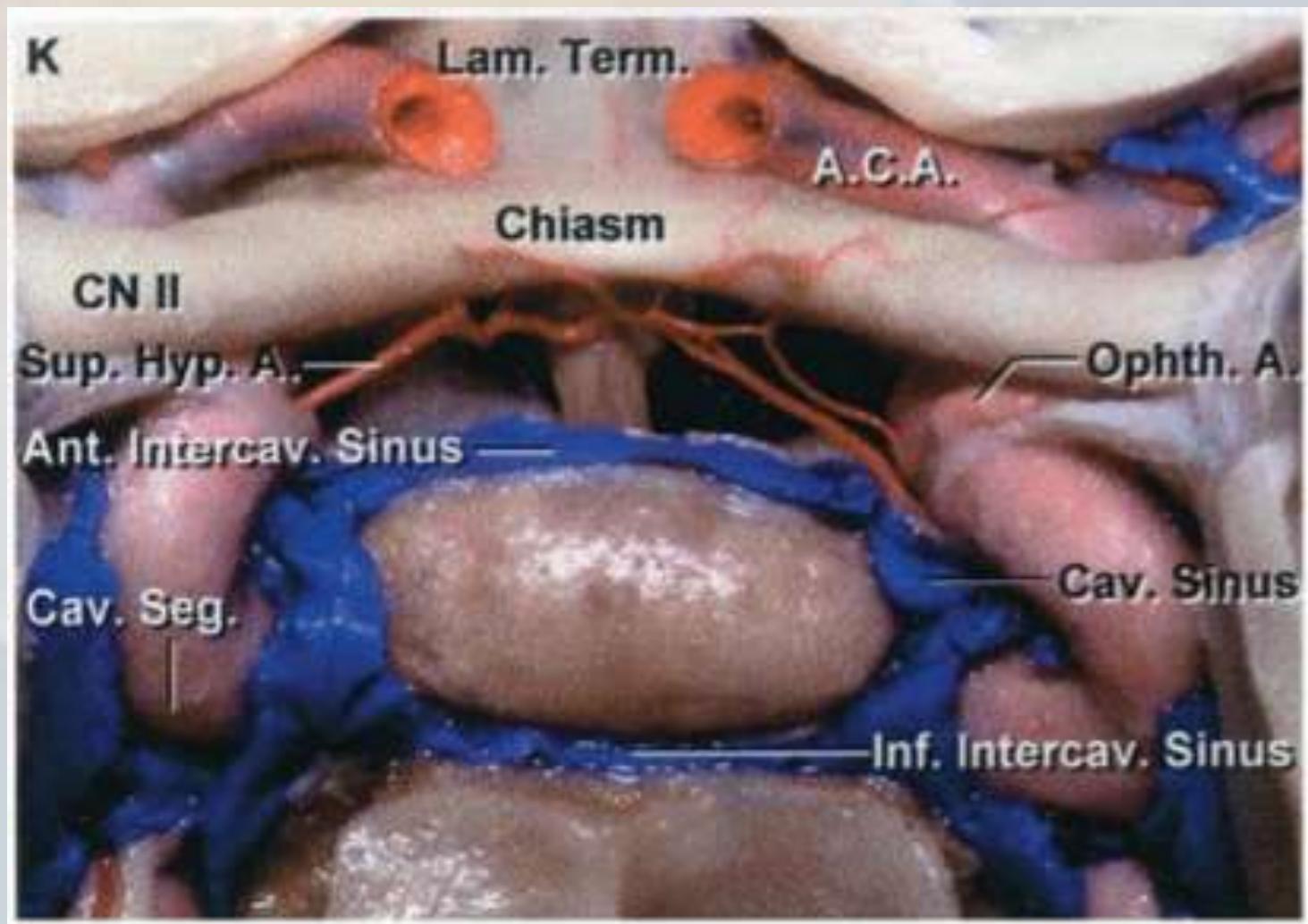
Hypofýza: funkce



Hypofýza: portální systém

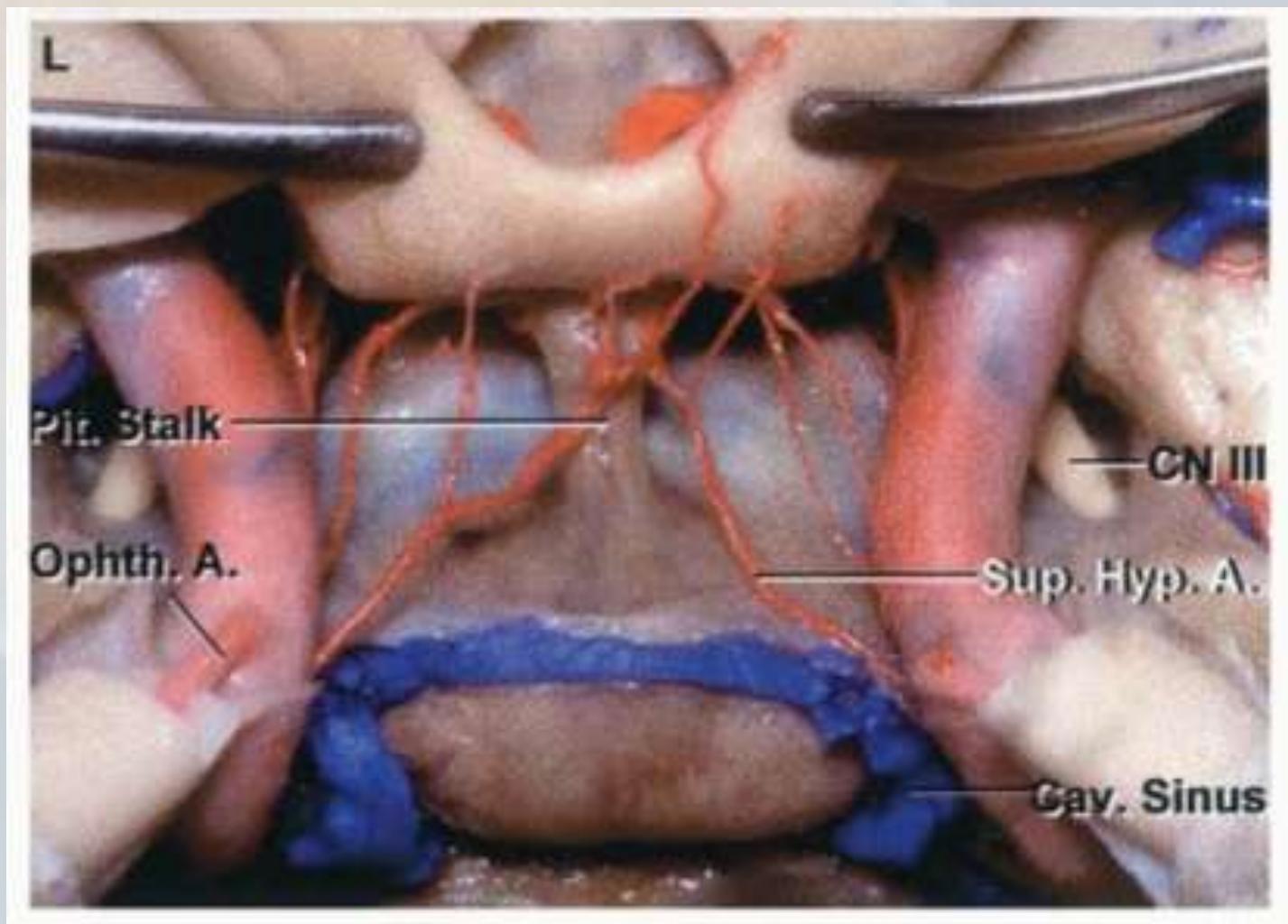


Hypofýza: cévní zásobení



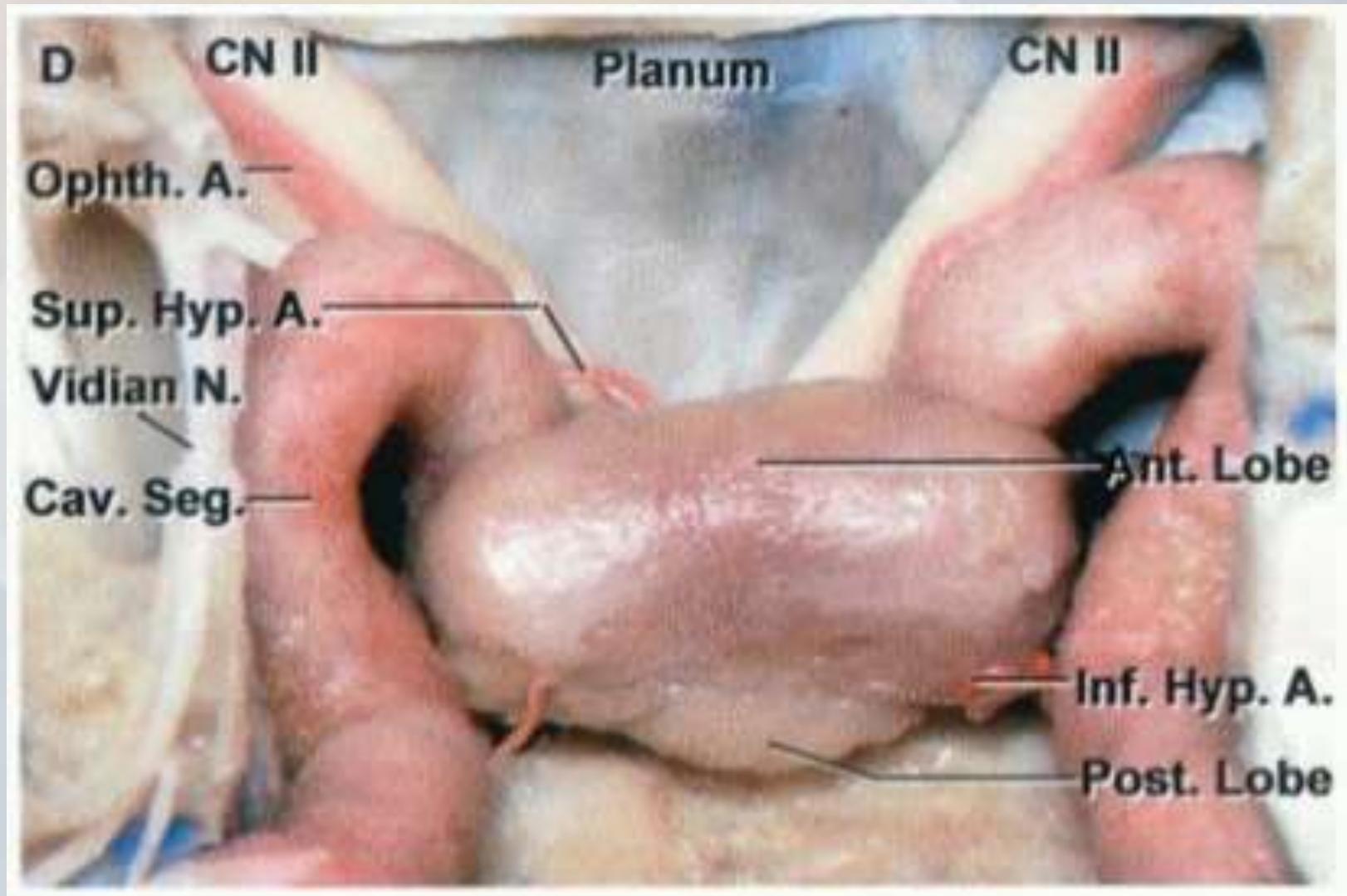
Horní hypofyzární artérie

Hypofýza: zásobení



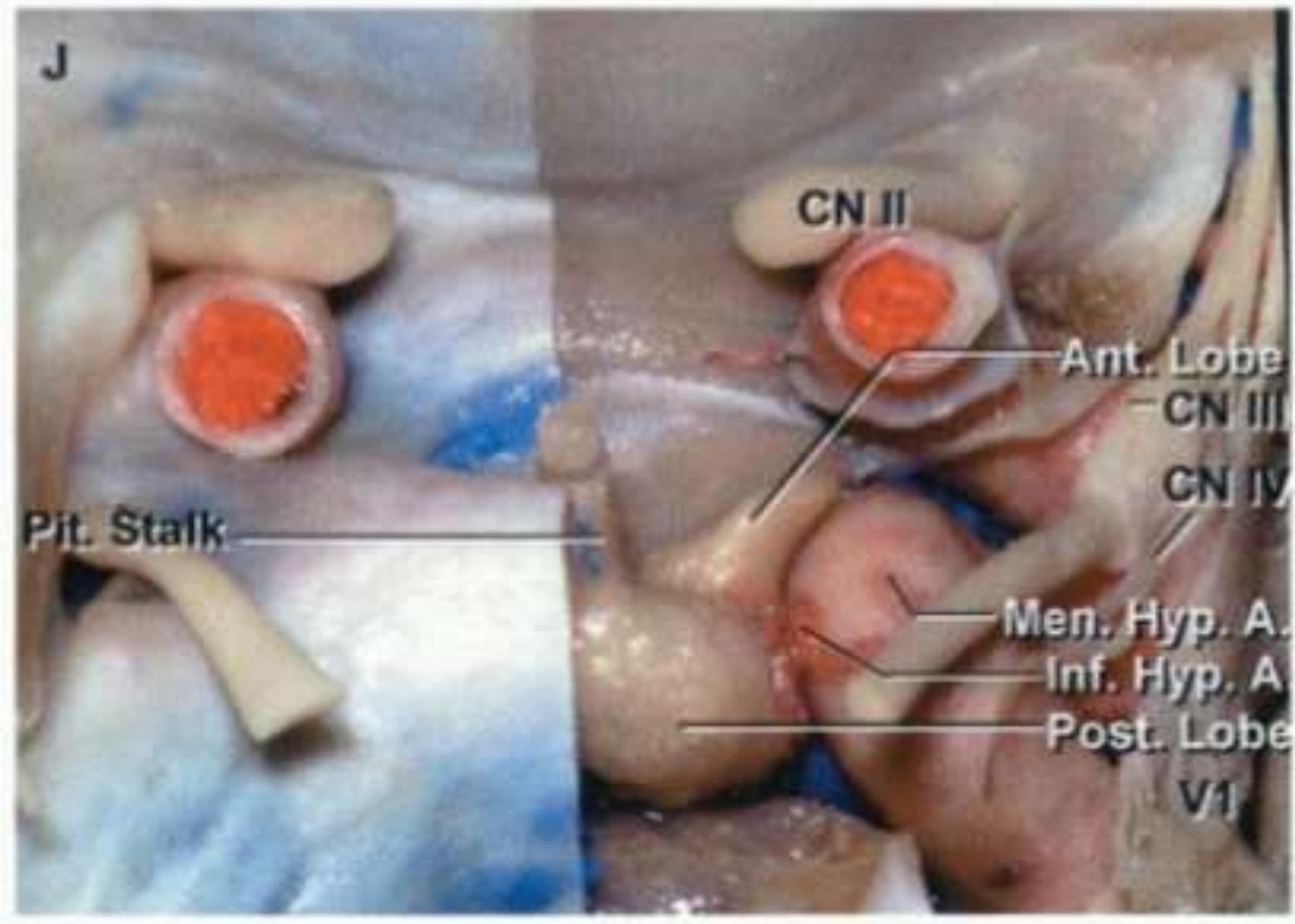
Horní hypofyzární artérie

Hypofýza: cévní zásobení



Dolní hypofyzární artérie

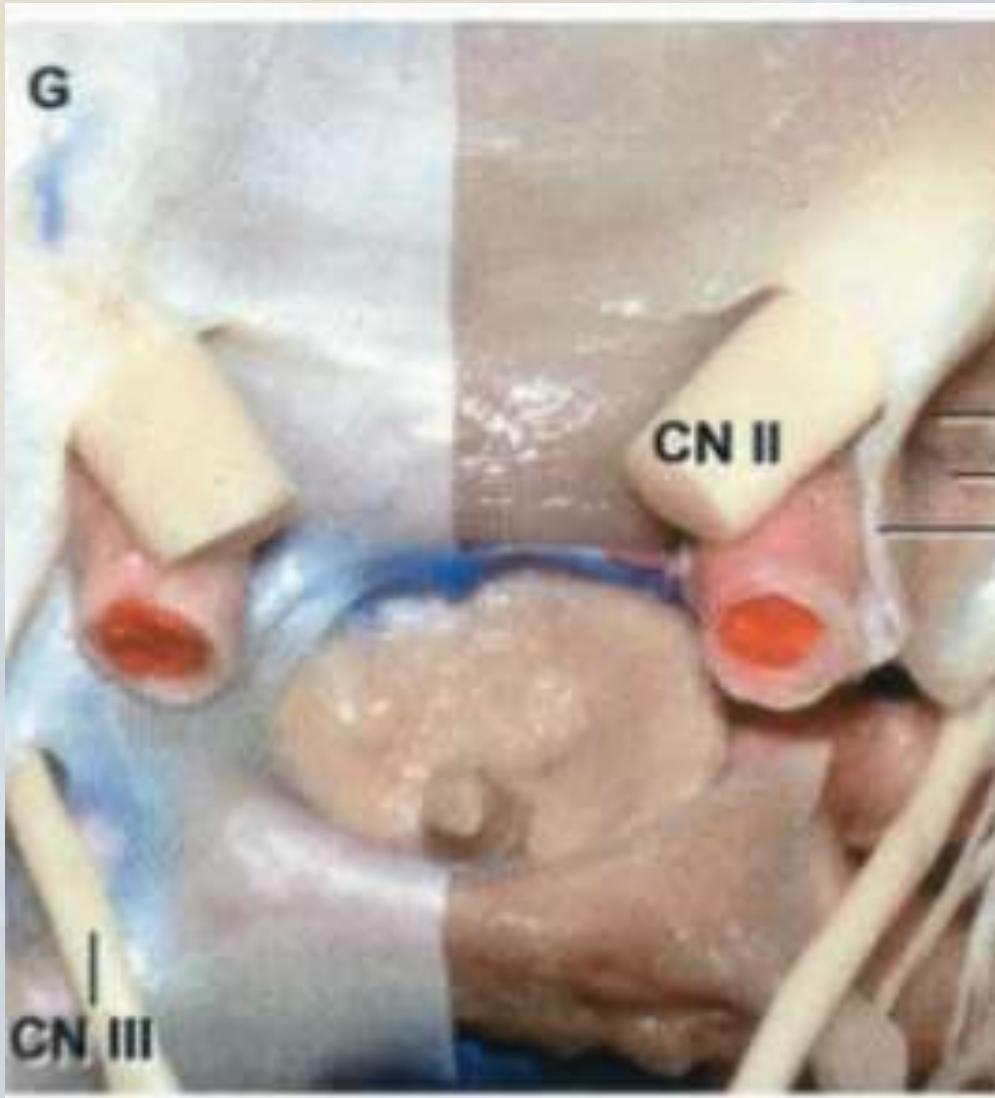
Hypofýza: zásobení



Dolní hypofyzární artérie

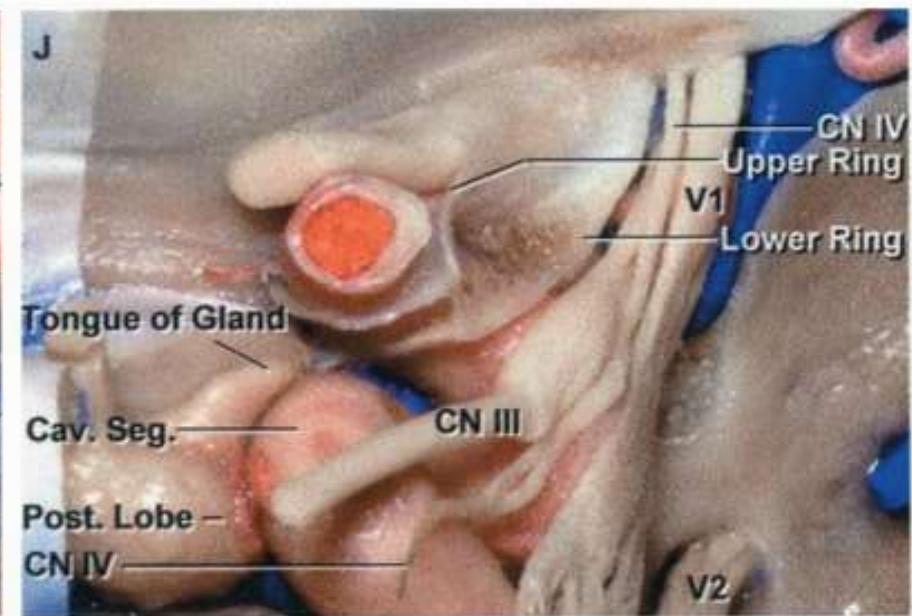
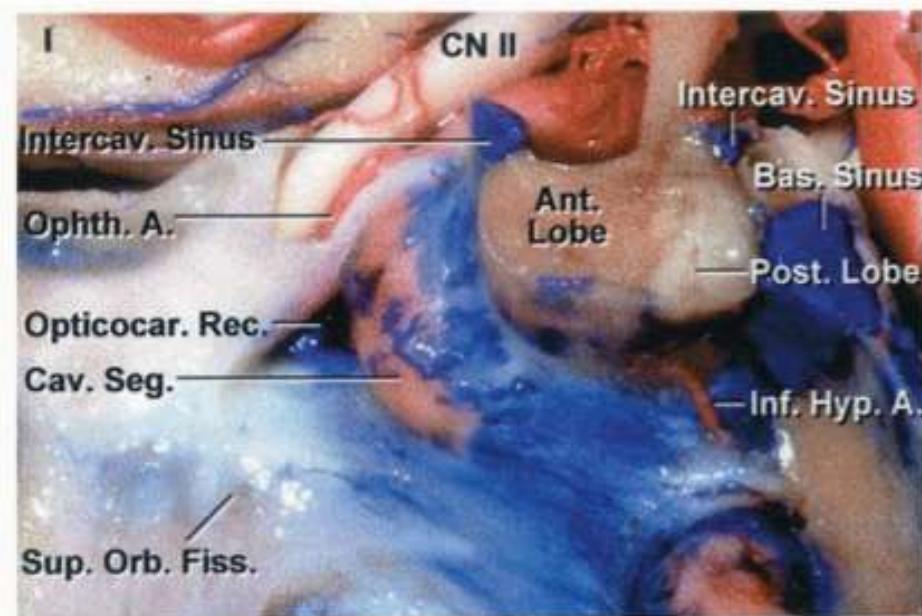
Truncus meningohypofisarius – Art. Bernasconi-Cassinari

Hypofýza: uložení



Intradurálně extraarachnoidálně

Hypofýza: uložení

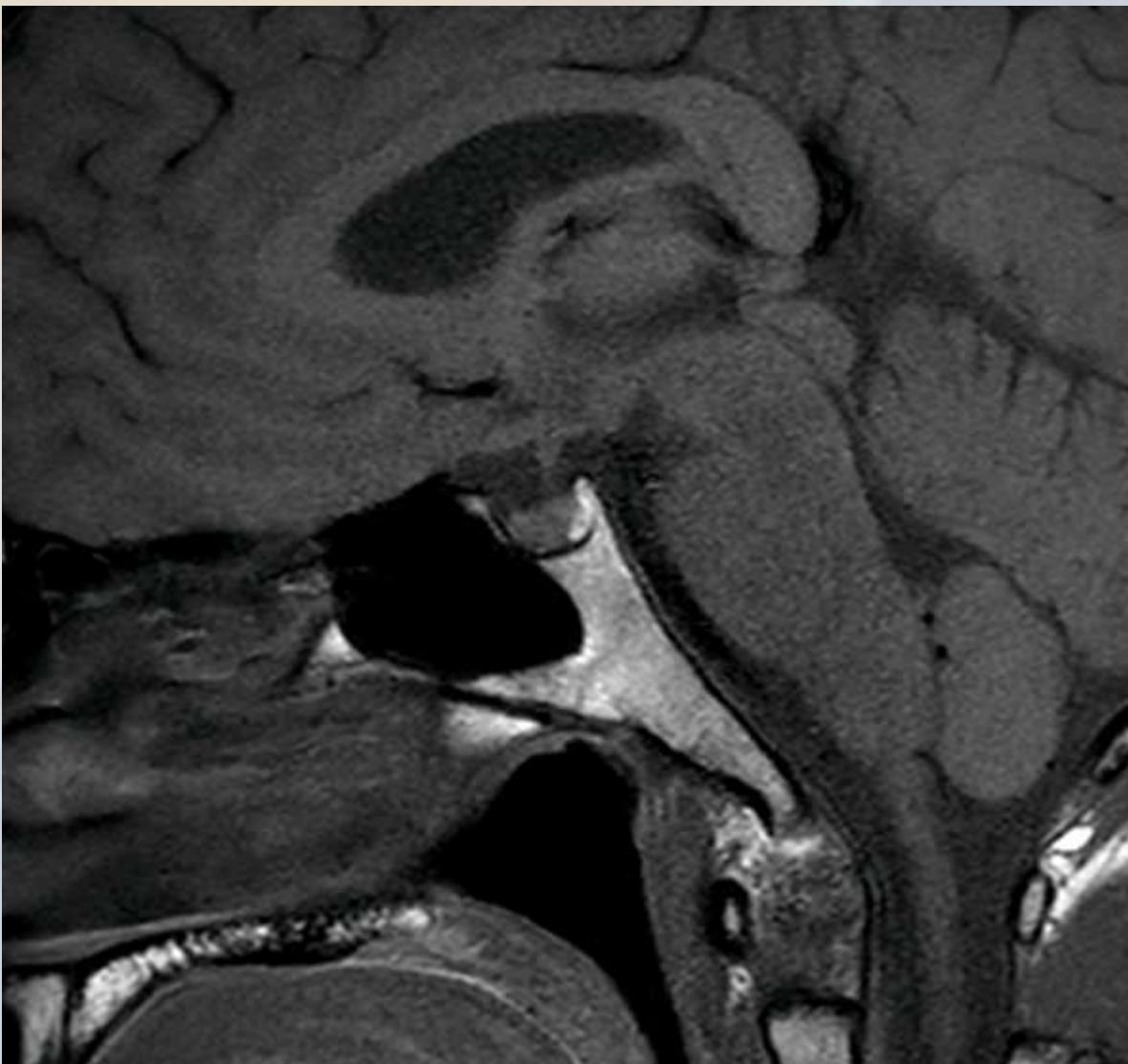


Intradurálně extraarachnoidálně

Hypofýza: základy anatomie

Interaktivní část!!

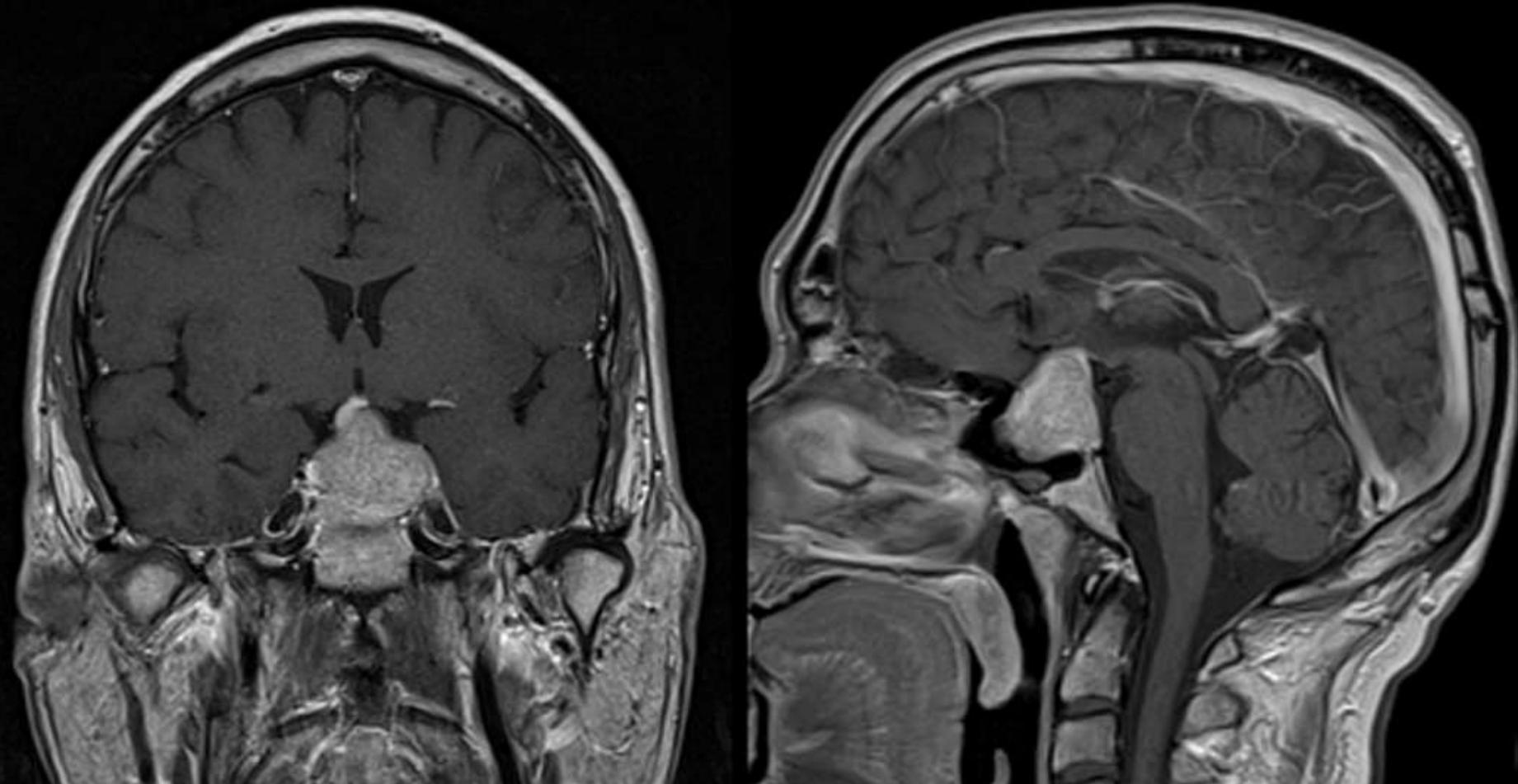
Hypofýza: základy anatomie



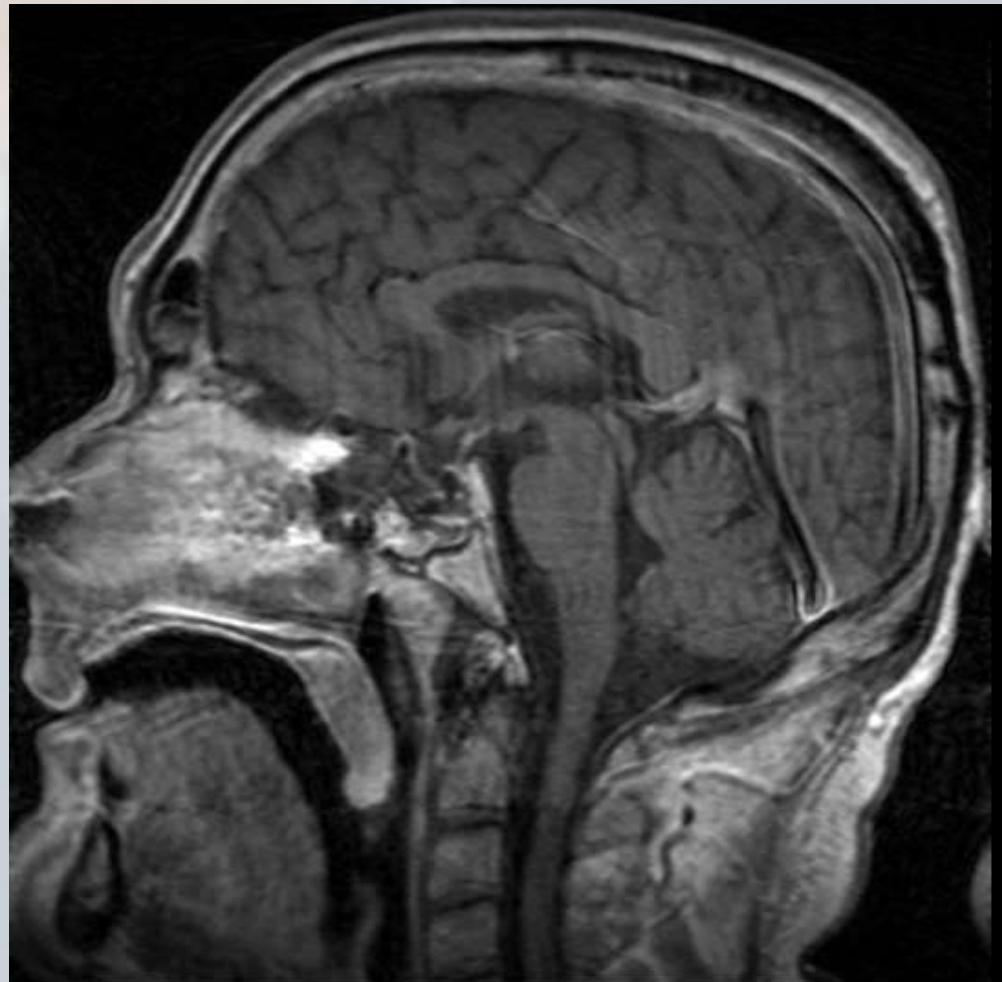
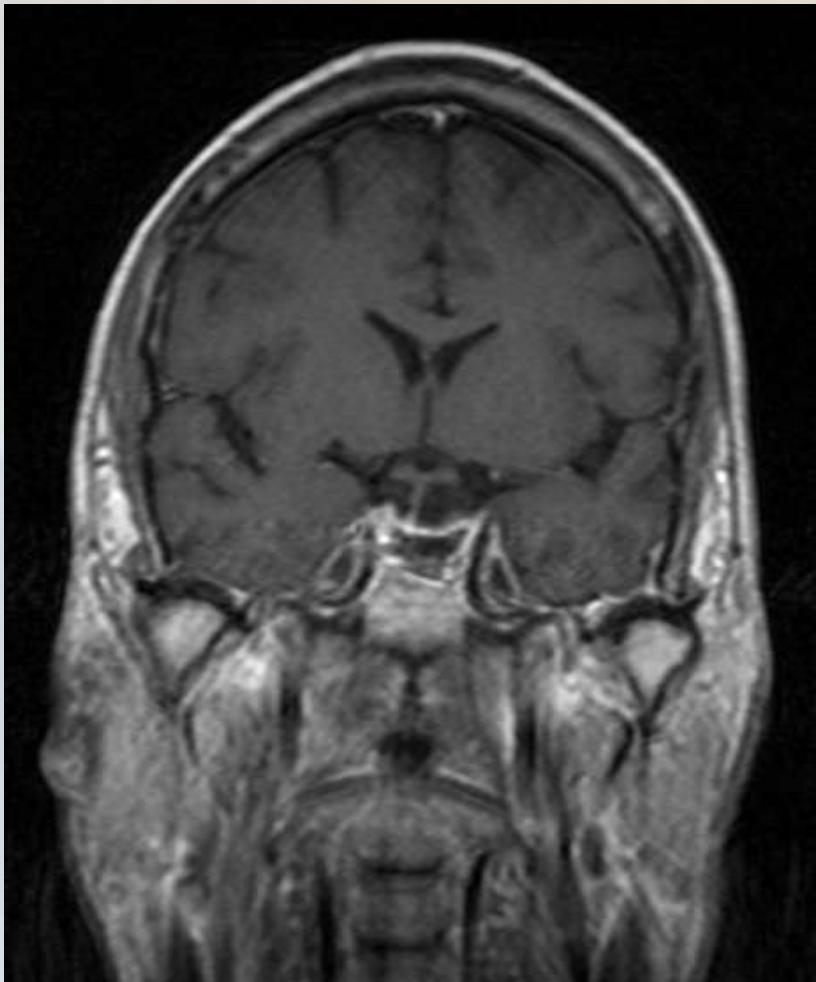
Adiuretin (ADH)

Můž, 47 let

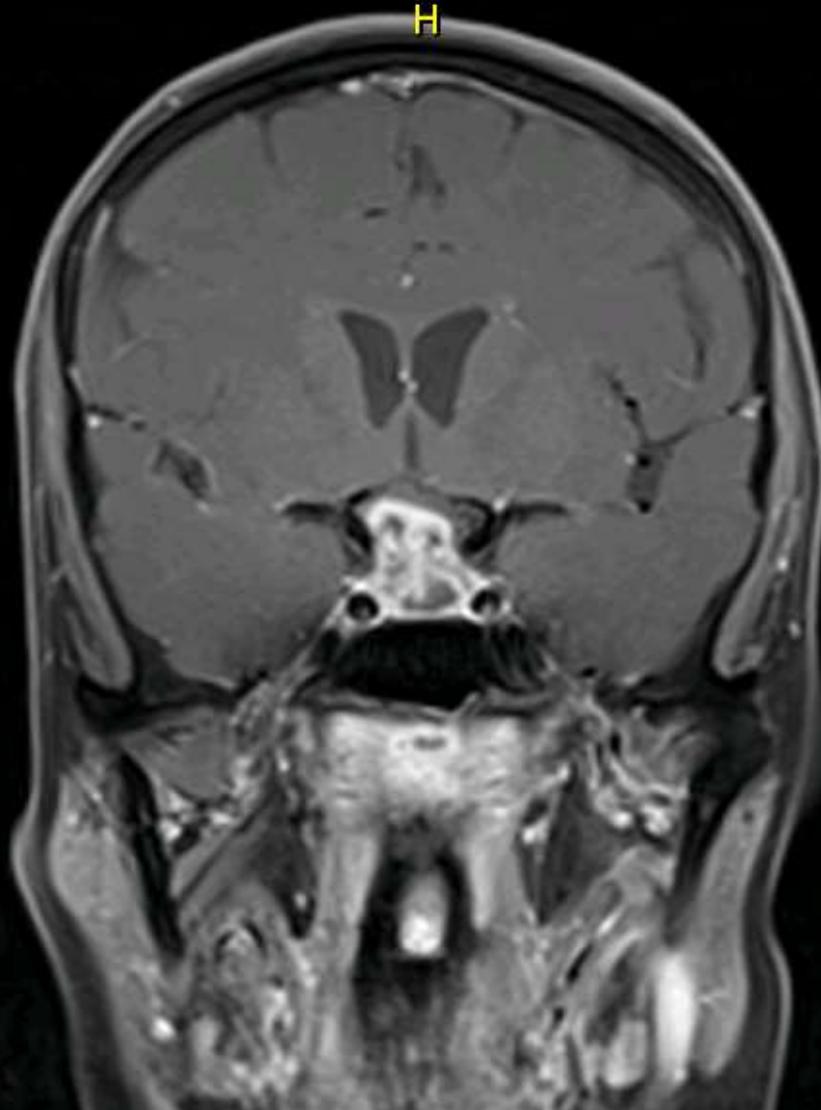
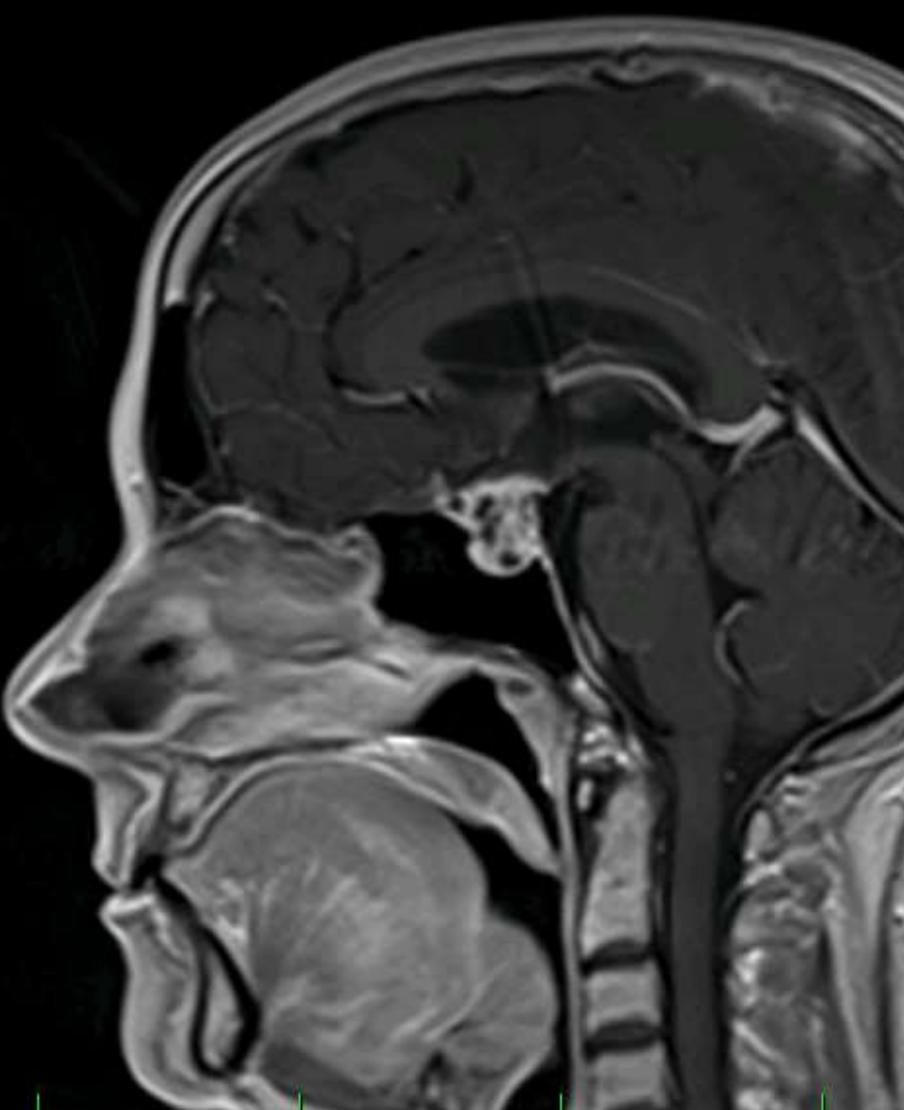
Adenom afunkční



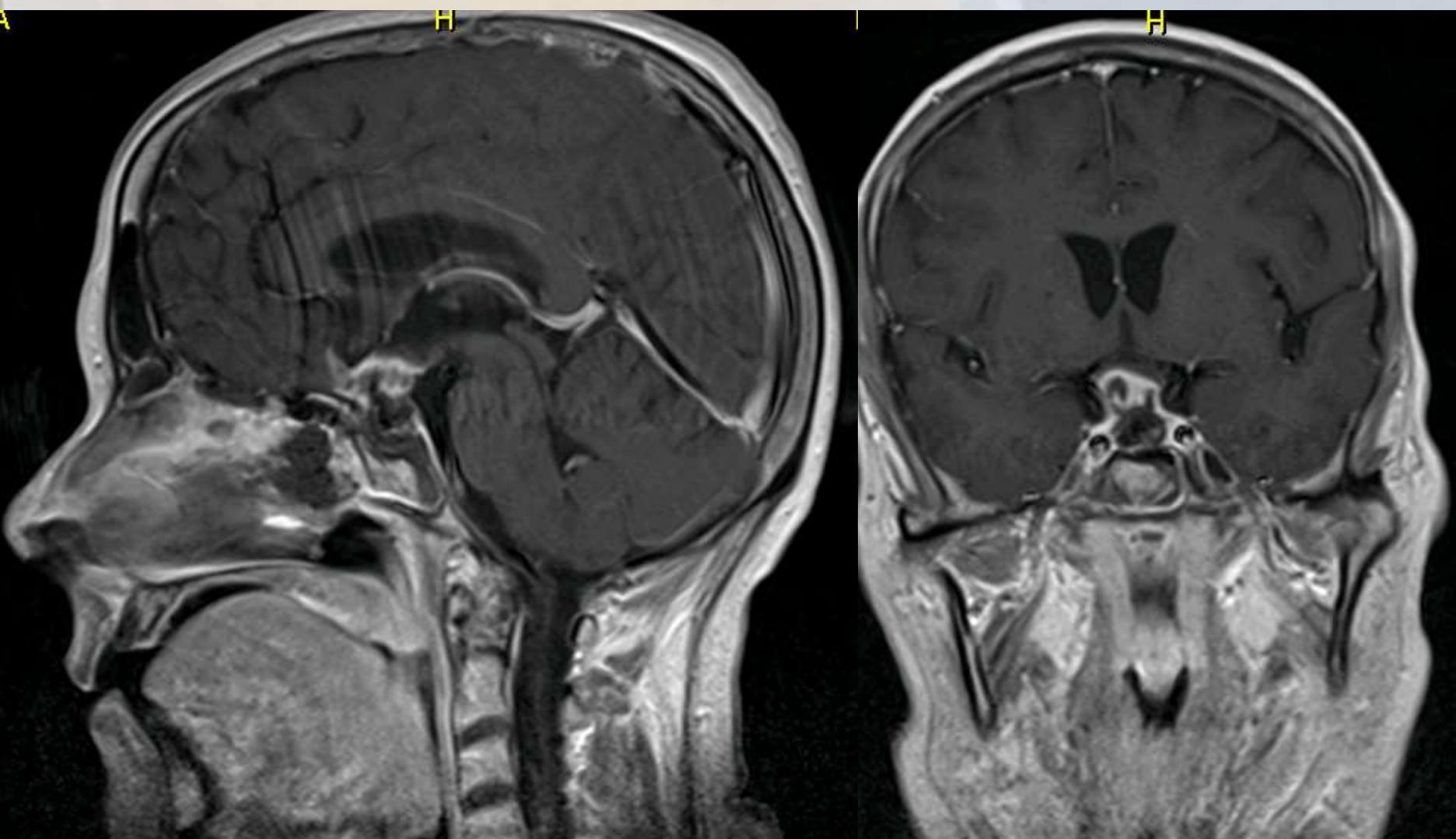
Radikální resekce



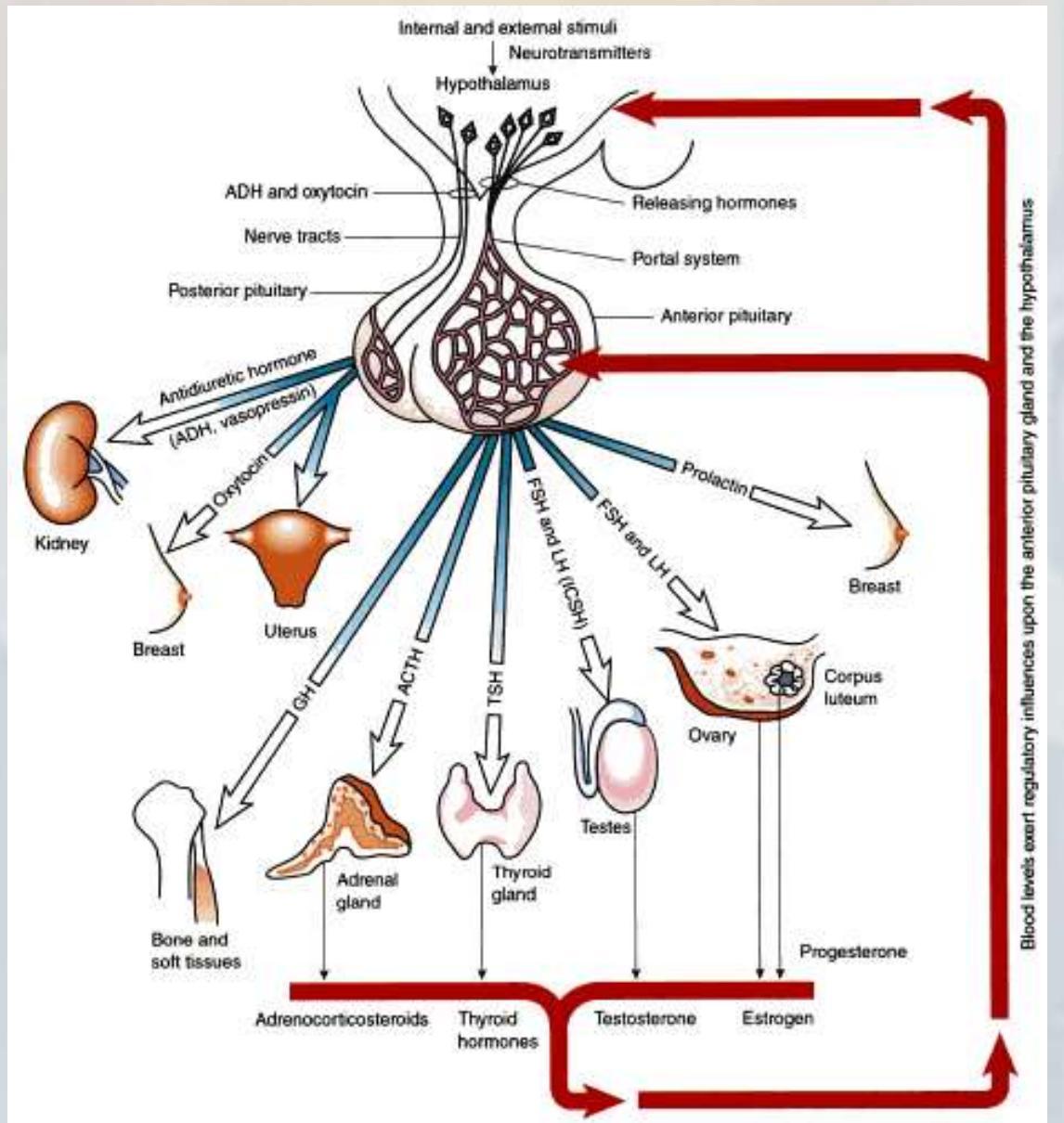
Žena, 65 let
Kraniopharyngiom



Subtotální resekce



Hypofýza: funkce



Adenohypofýza:

FSH

LH

ACTH

TSH

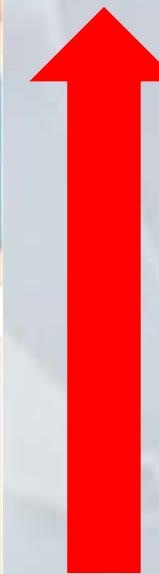
PRL

STH

Neurohypofýza:

Oxytocin

ADH



Hypofýza: funkce



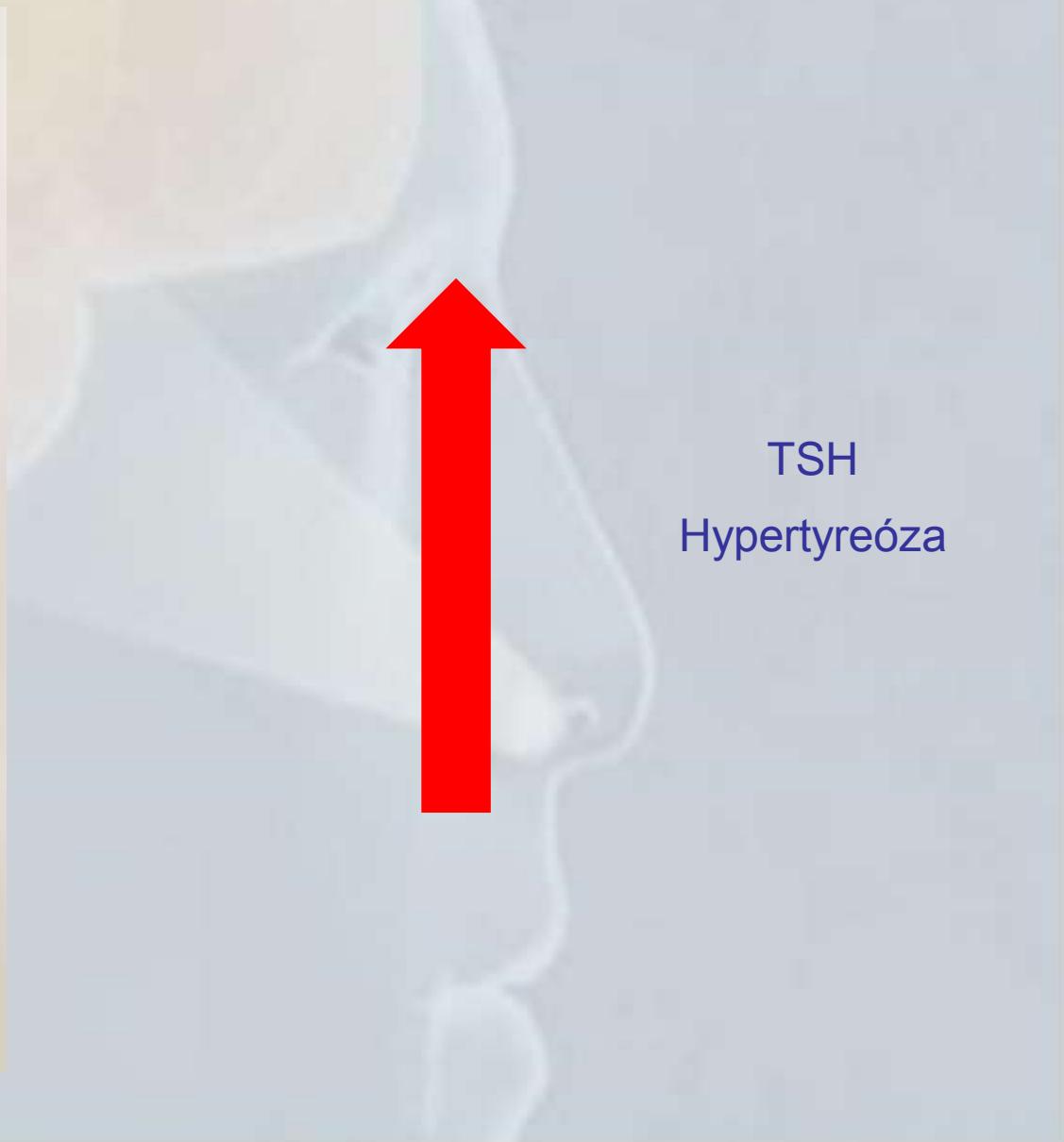
ACTH – Cushingův syndrom

Hypofýza: funkce



STH – nanismus u dětí,
nadváha a slabost u
dospělých

Hypofýza: funkce

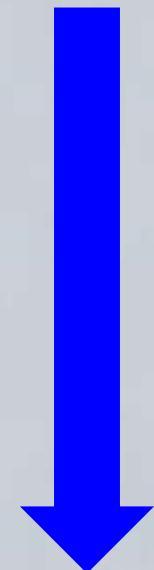


Hypofýza: funkce



STH
Acromegalie

Hypofýza: funkce



FSH



PRL

Hypofýza: funkce



ADH

Diabetes insipidus

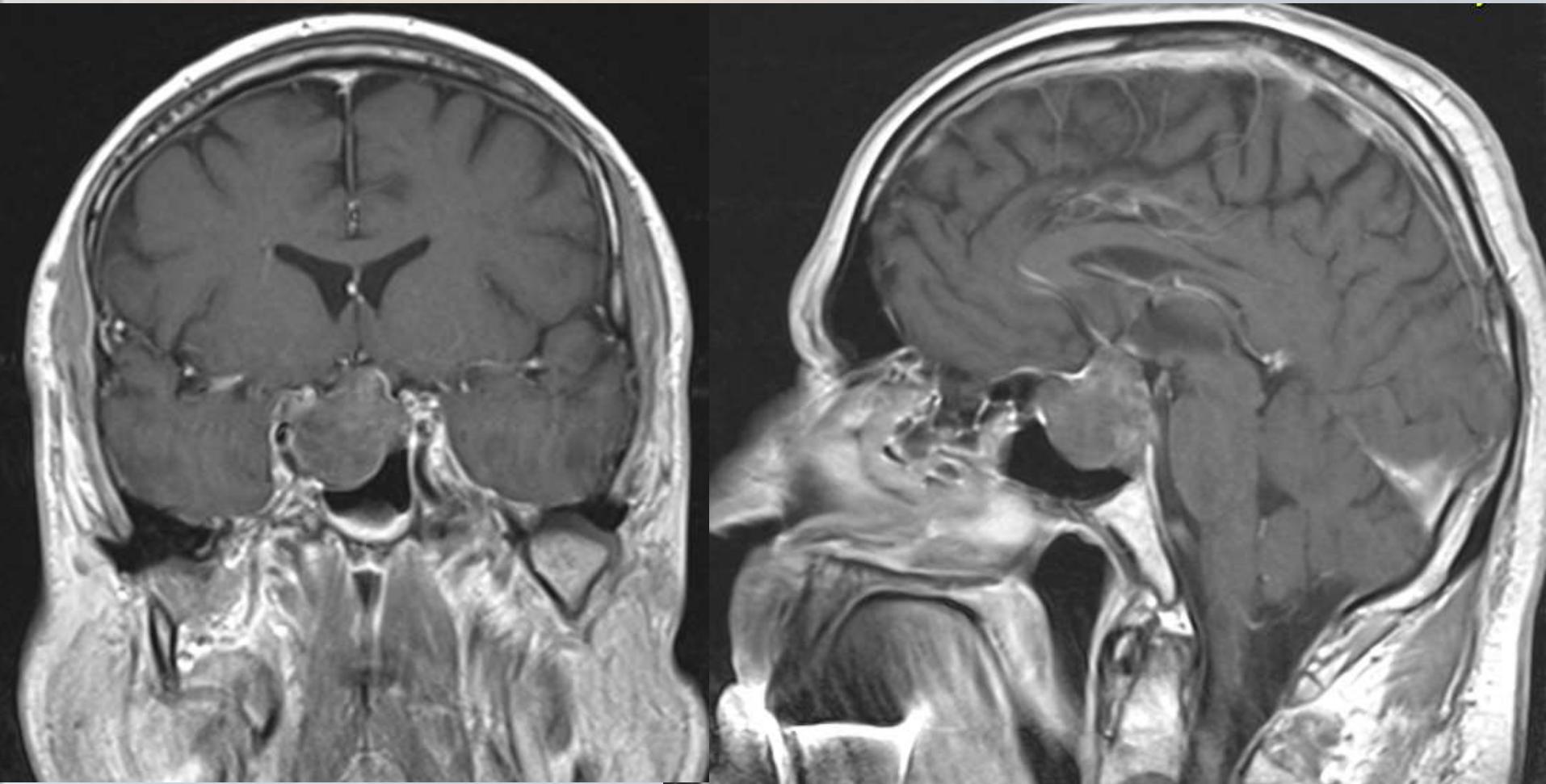
Hypofýza: funkce

Tab. 1. Zjednodušená klasifikace tumorů hypofýzy s uvedením hormonální sekrece a základními hypersekrečními syndromy.

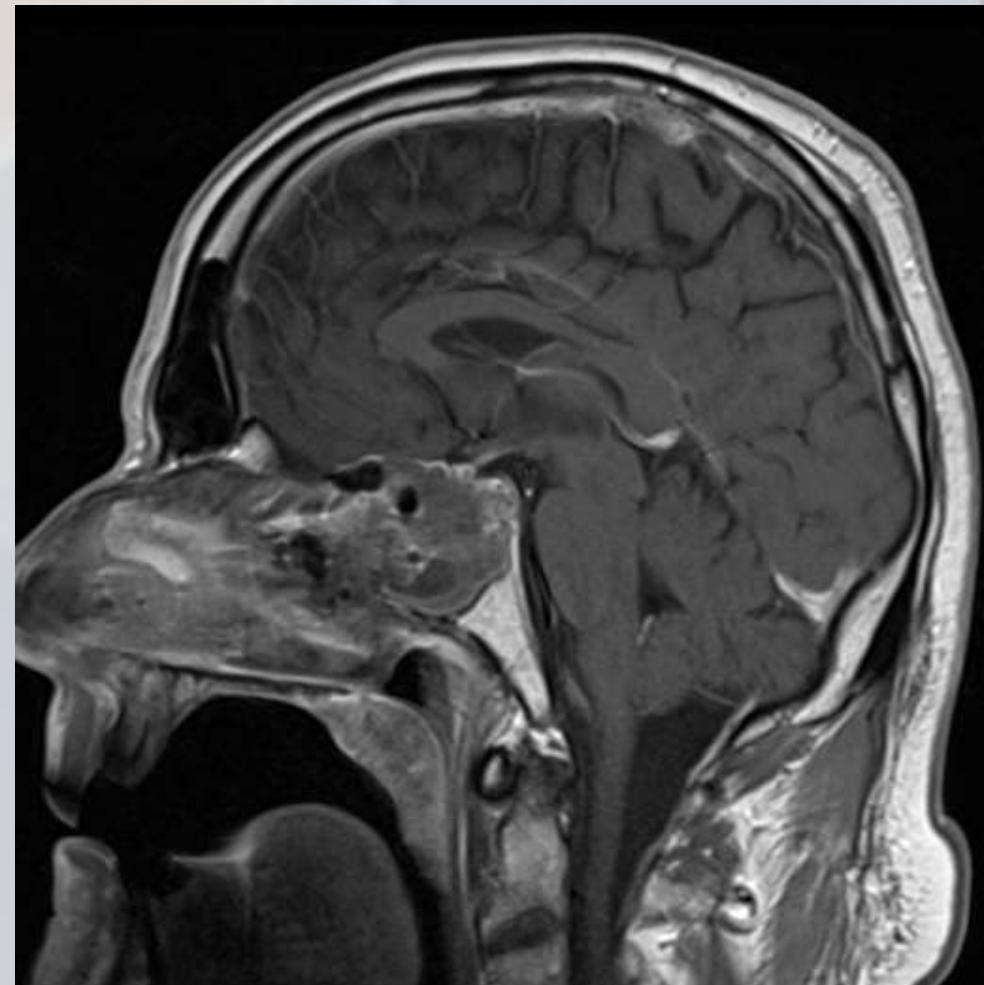
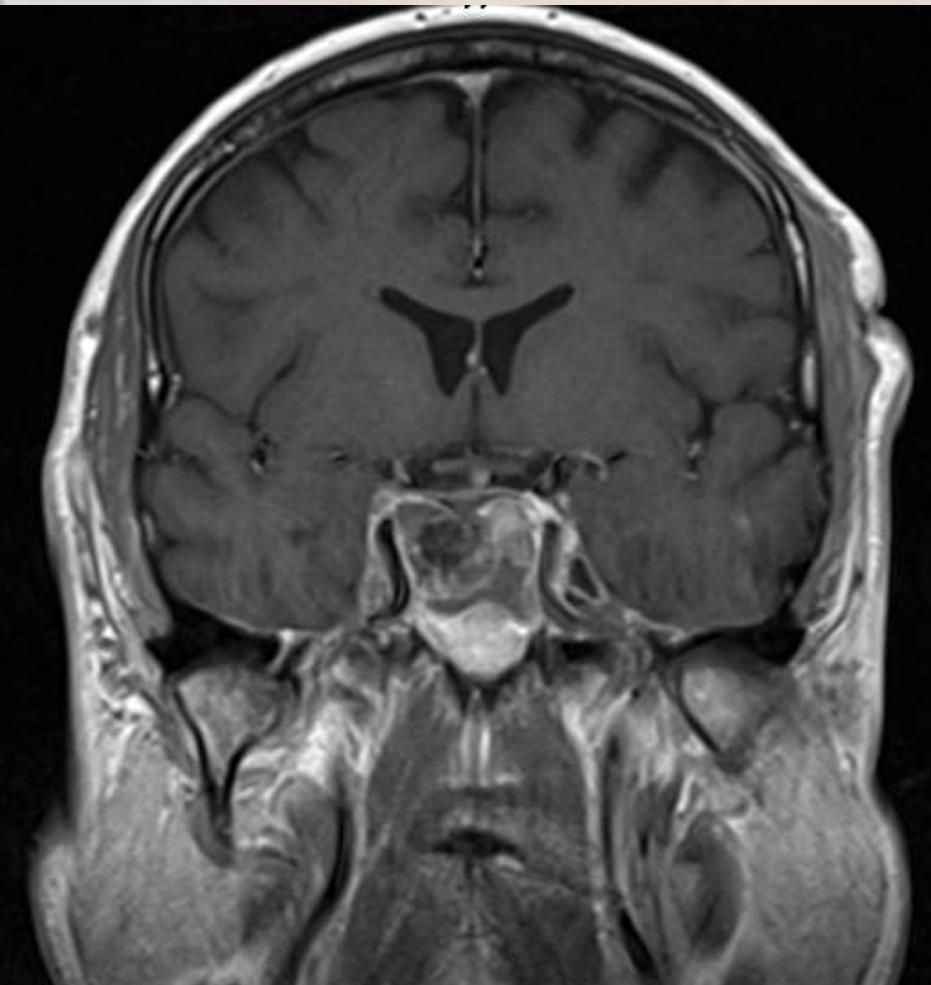
Typ adenomu	Hormonální sekrece	Hypersekreční syndrom
kortikotropní	adrenokortikotropní hormon a pro-opiomelanokortin	Cushingova nemoc
somatotropní	růstový hormon	akromegalie (gigantizmus)
tyrotropní	tyreostimulačního hormon	vzácněji hypertreóza, častěji hormonálně asymptomatické
gonadotropní	luteinizační hormon, folikulostimulační hormon	obvykle hormonálně asymptomatické
laktotropní nebo prolaktinom	prolaktin	galaktorea, hypogonadismus, amenorea, infertilita, impotence
„null cell“ adenom	bez hormonální sekrece	–

Múž, 70 let, akutní pareza III. a VI. h.n.

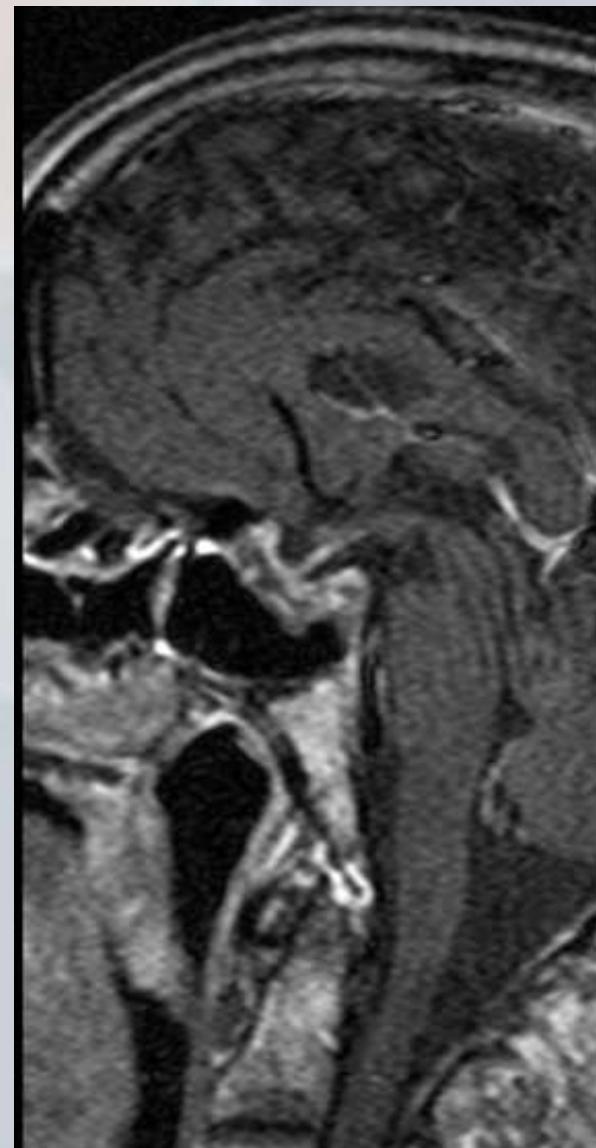
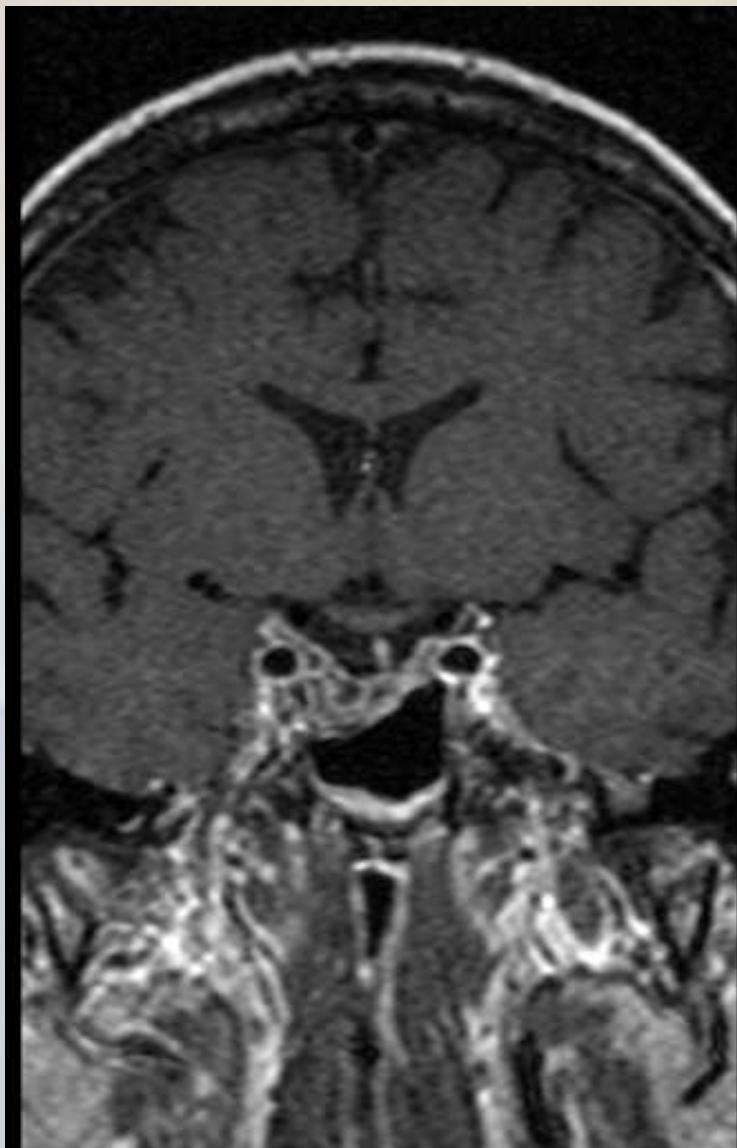
Apoplexie



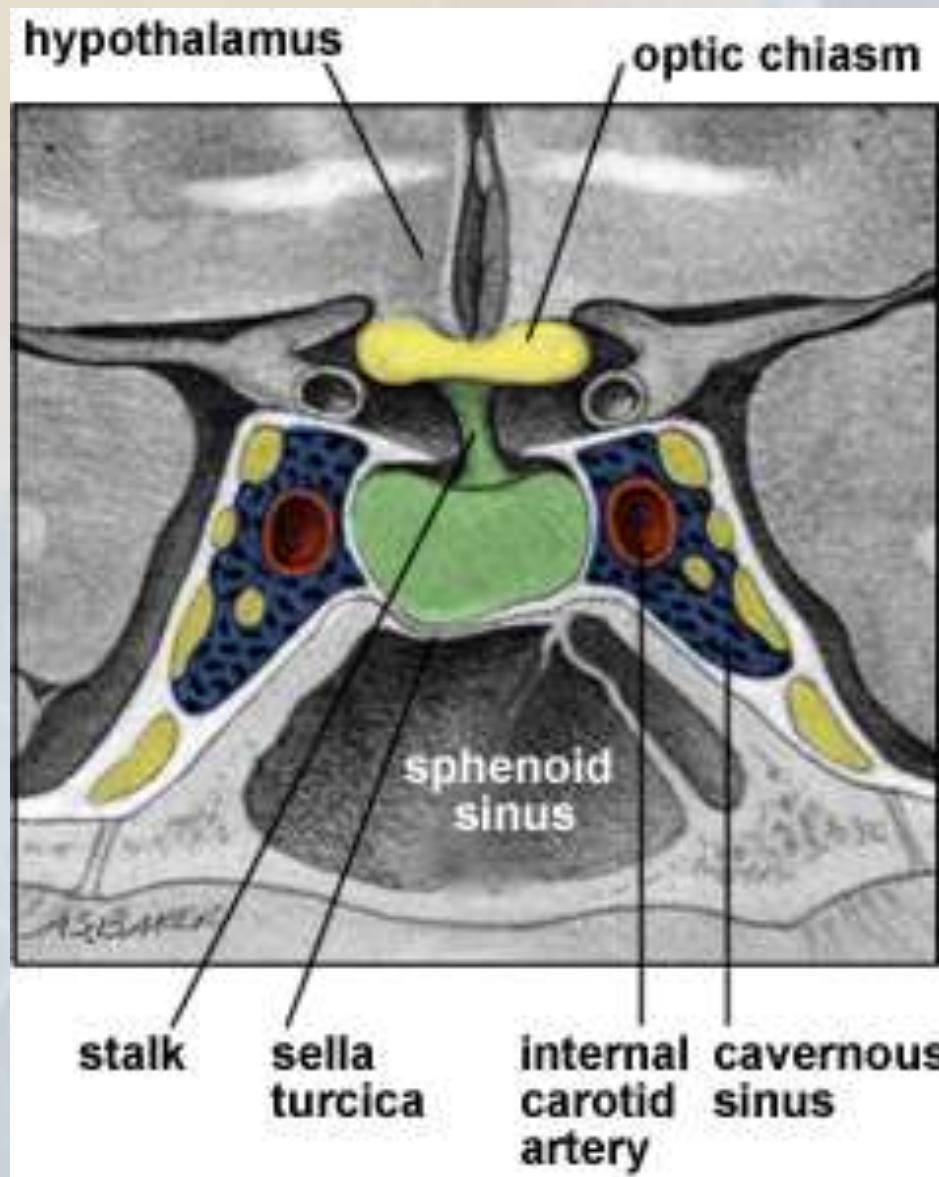
Evakuace (1. pooperační den)



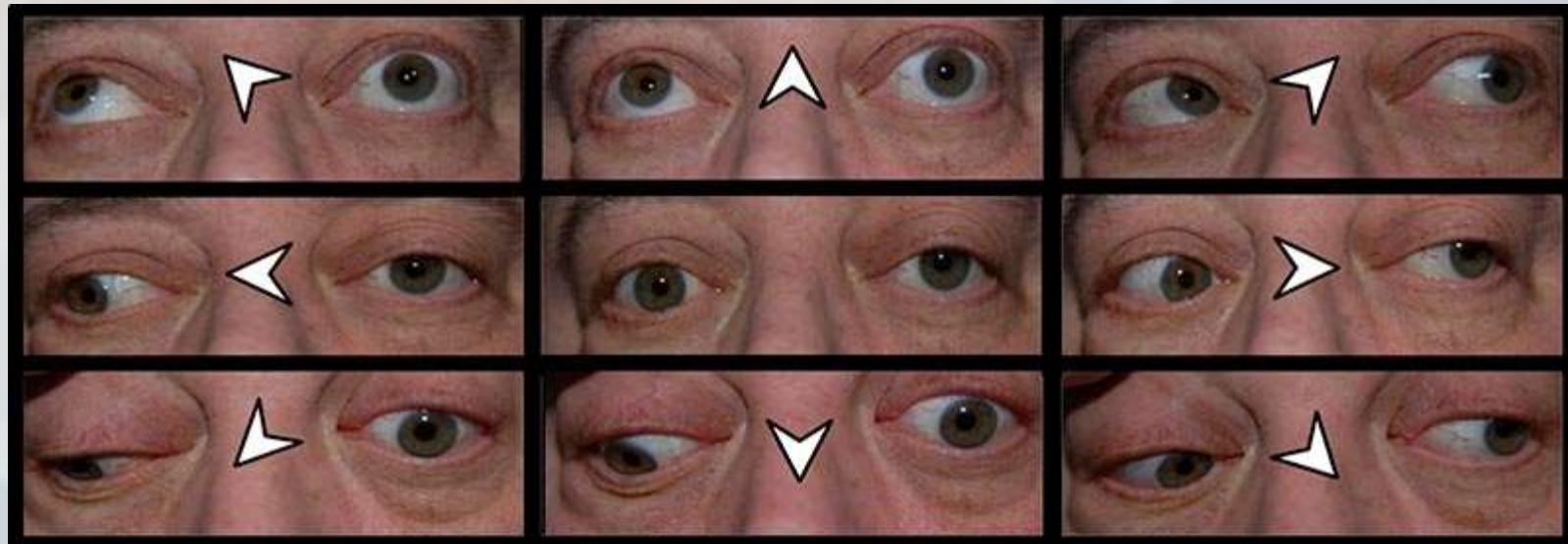
Po měsíci



Hypofýza: okolí

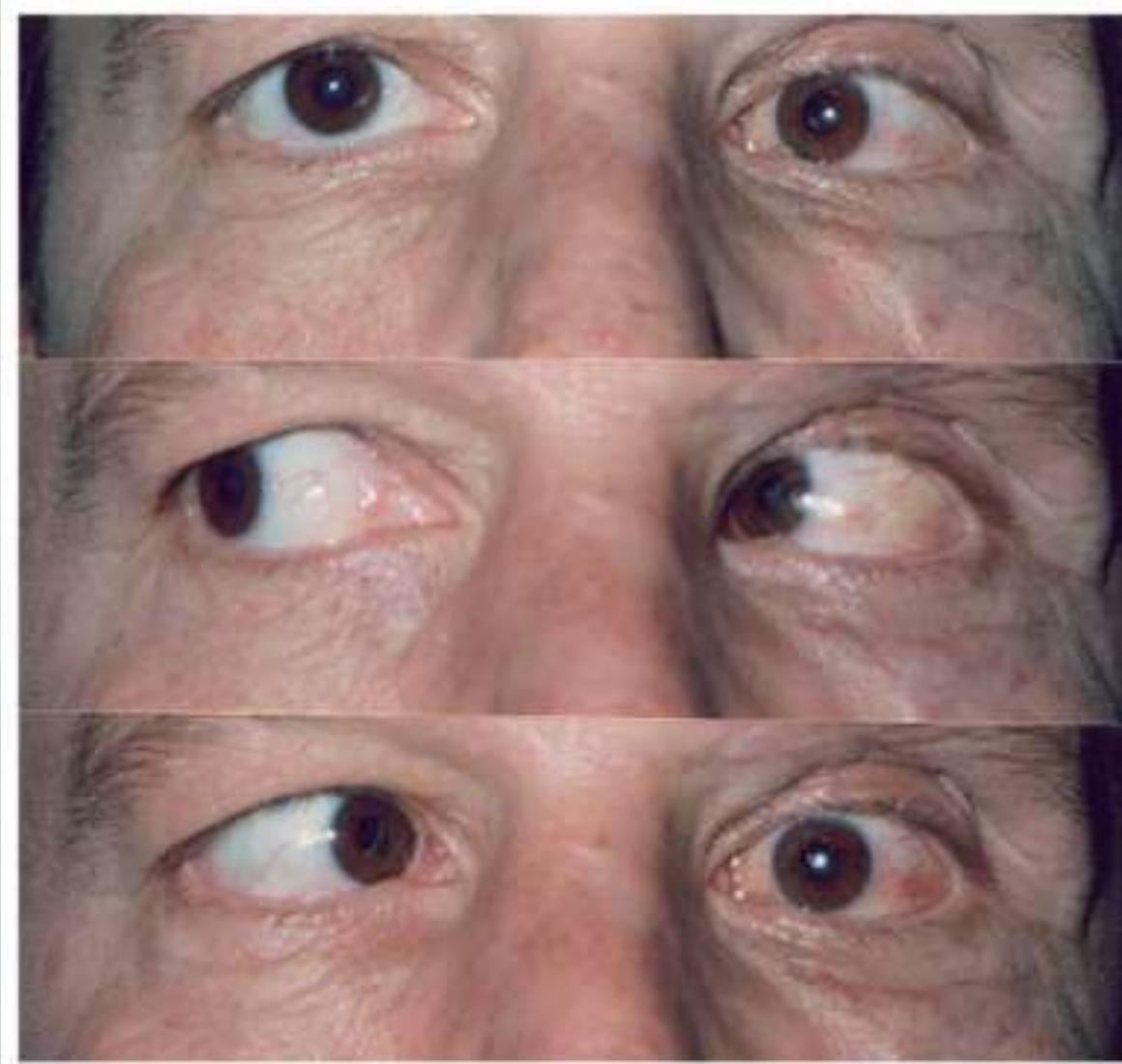


Hypofýza: porucha okohybnosti



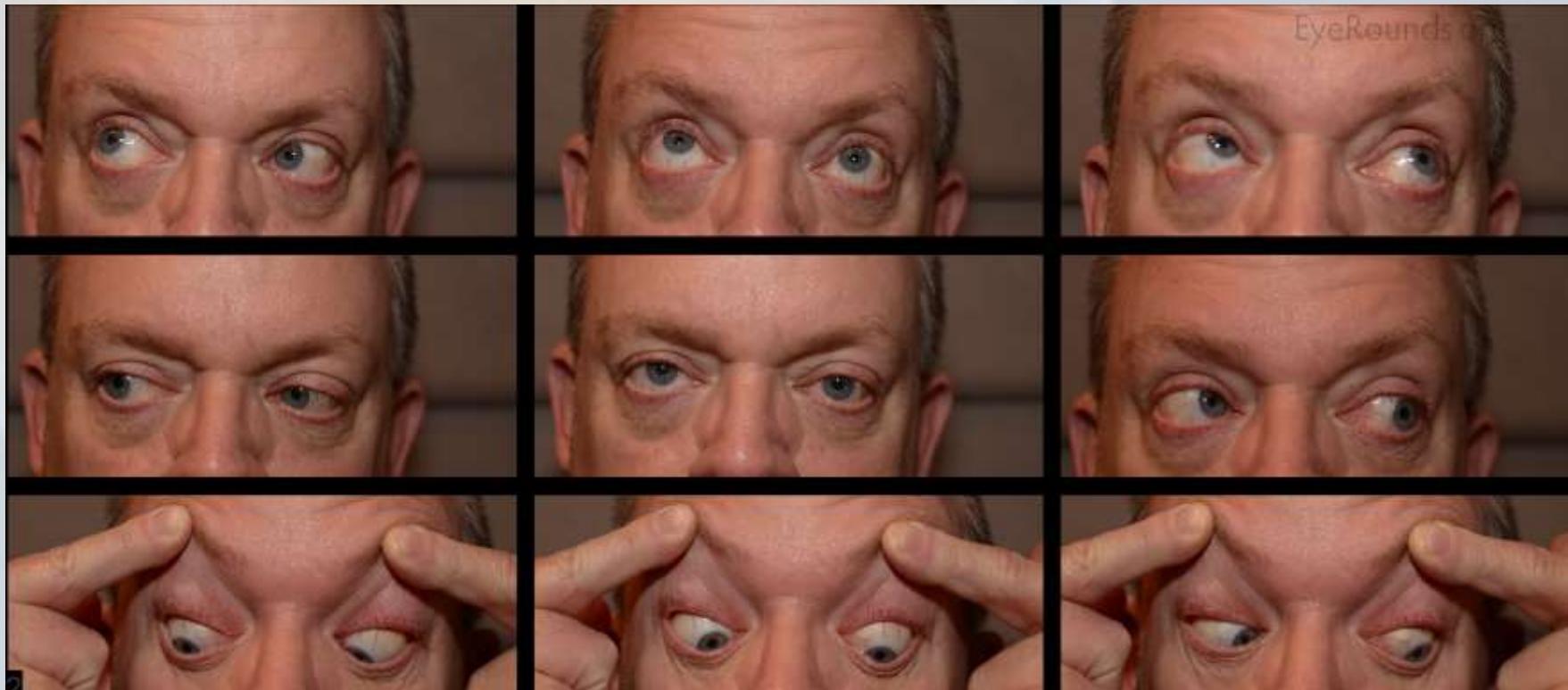
Pareza III. h.n. vlevo
Oculomotorius

Hypofýza: porucha visu



Pareza VI. h.n. vlevo
Abducens

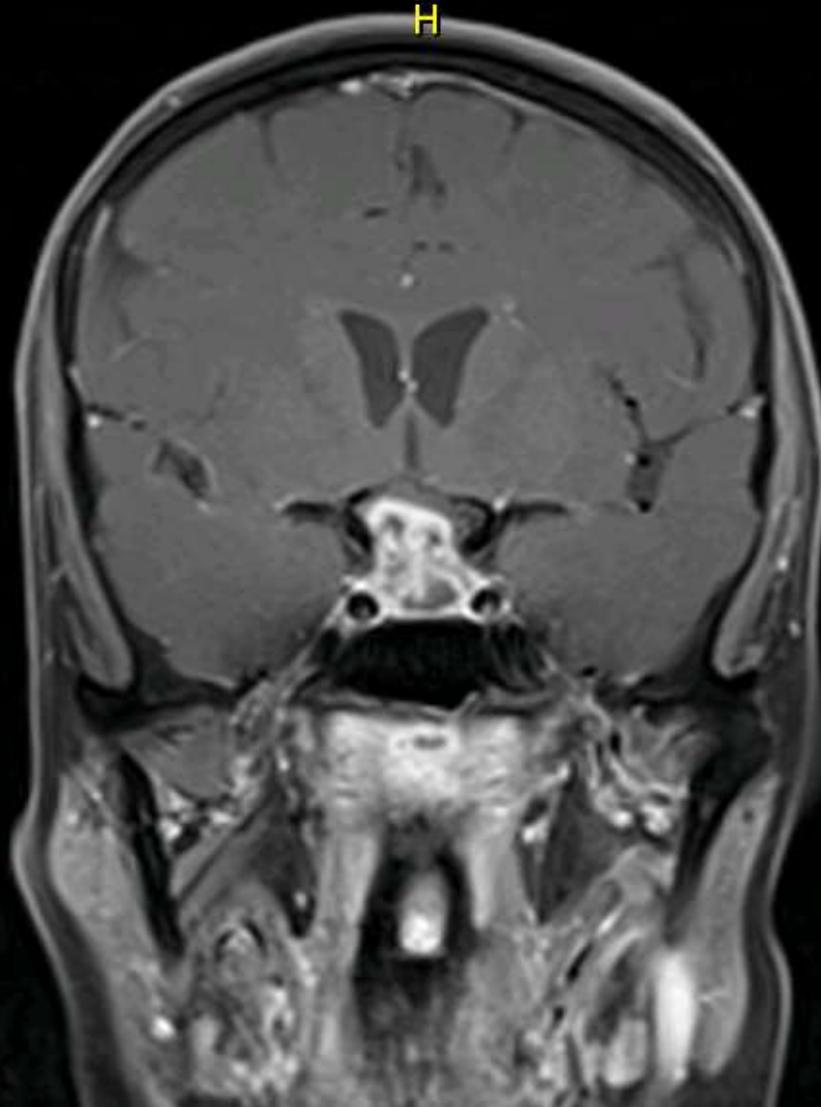
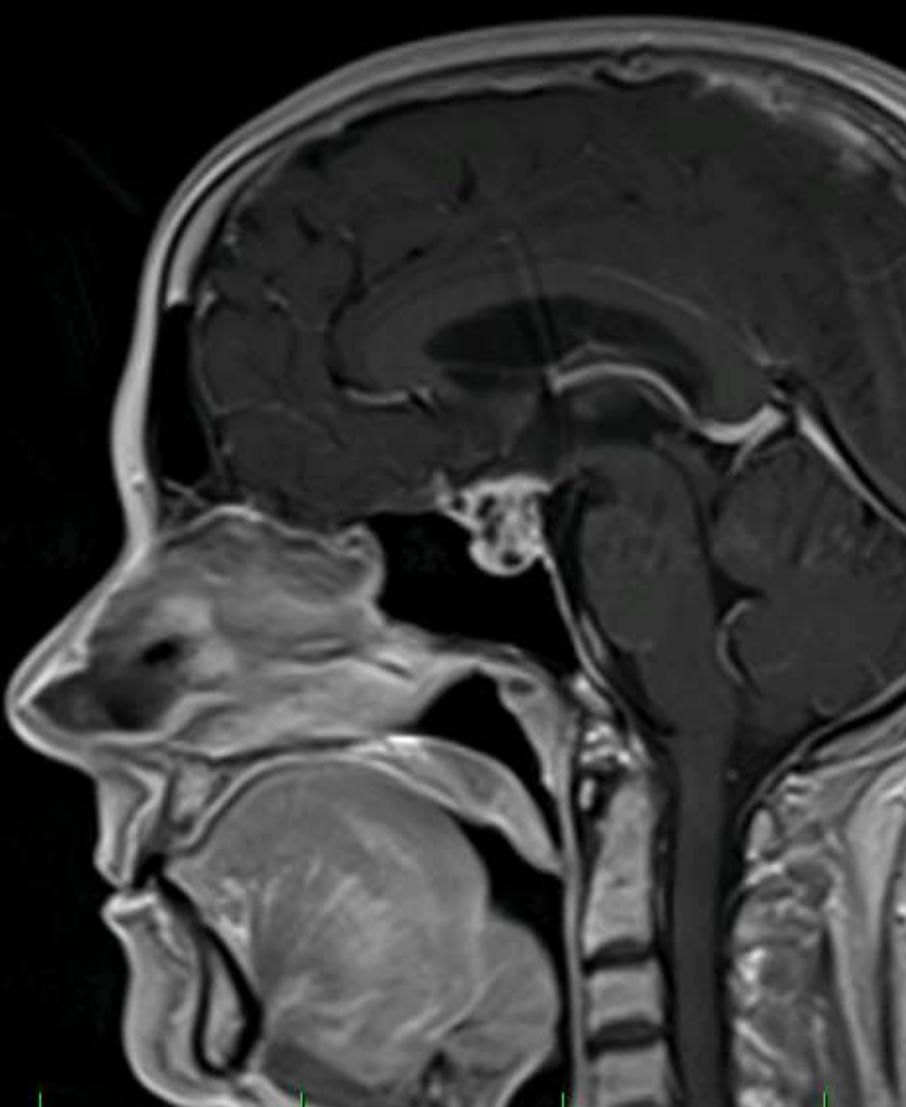
Hypofýza: porucha visu



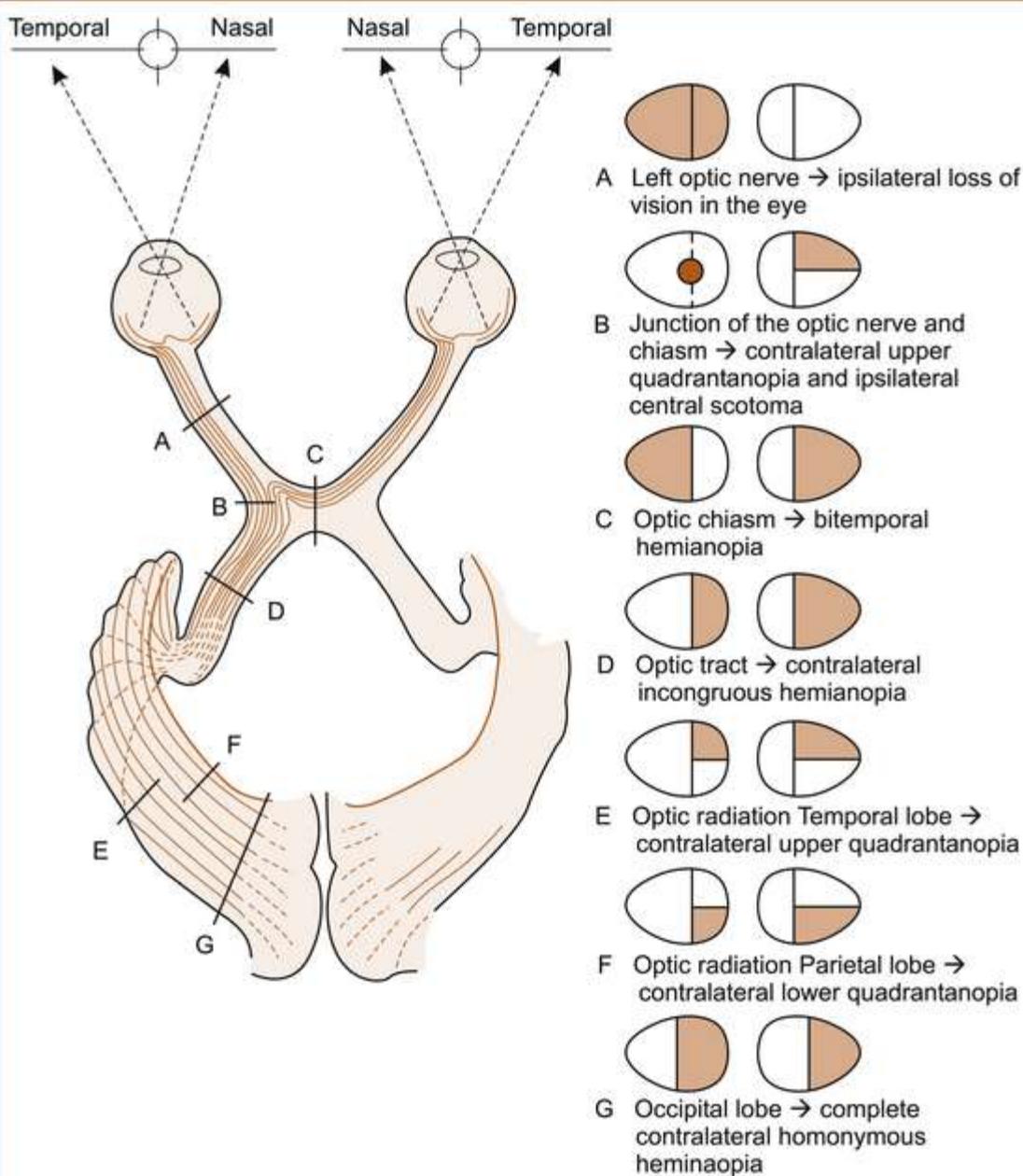
Pareza IV. h.n. vlevo

Troclearis

Původní tumor se slepotou OP a zhoršením
visu OL



Hypofýza: porucha visu

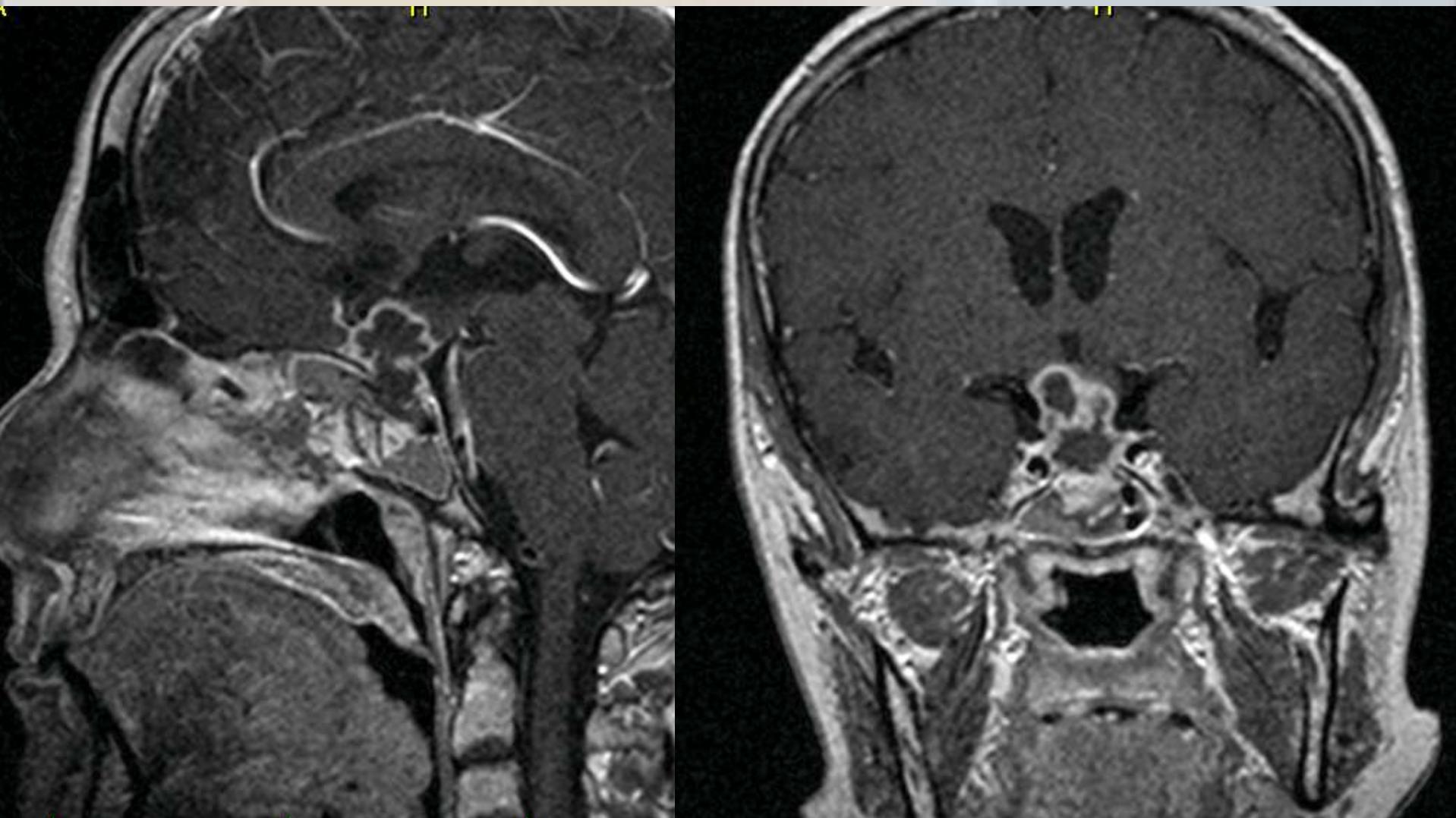


Hypofýza: empty sella syndrome

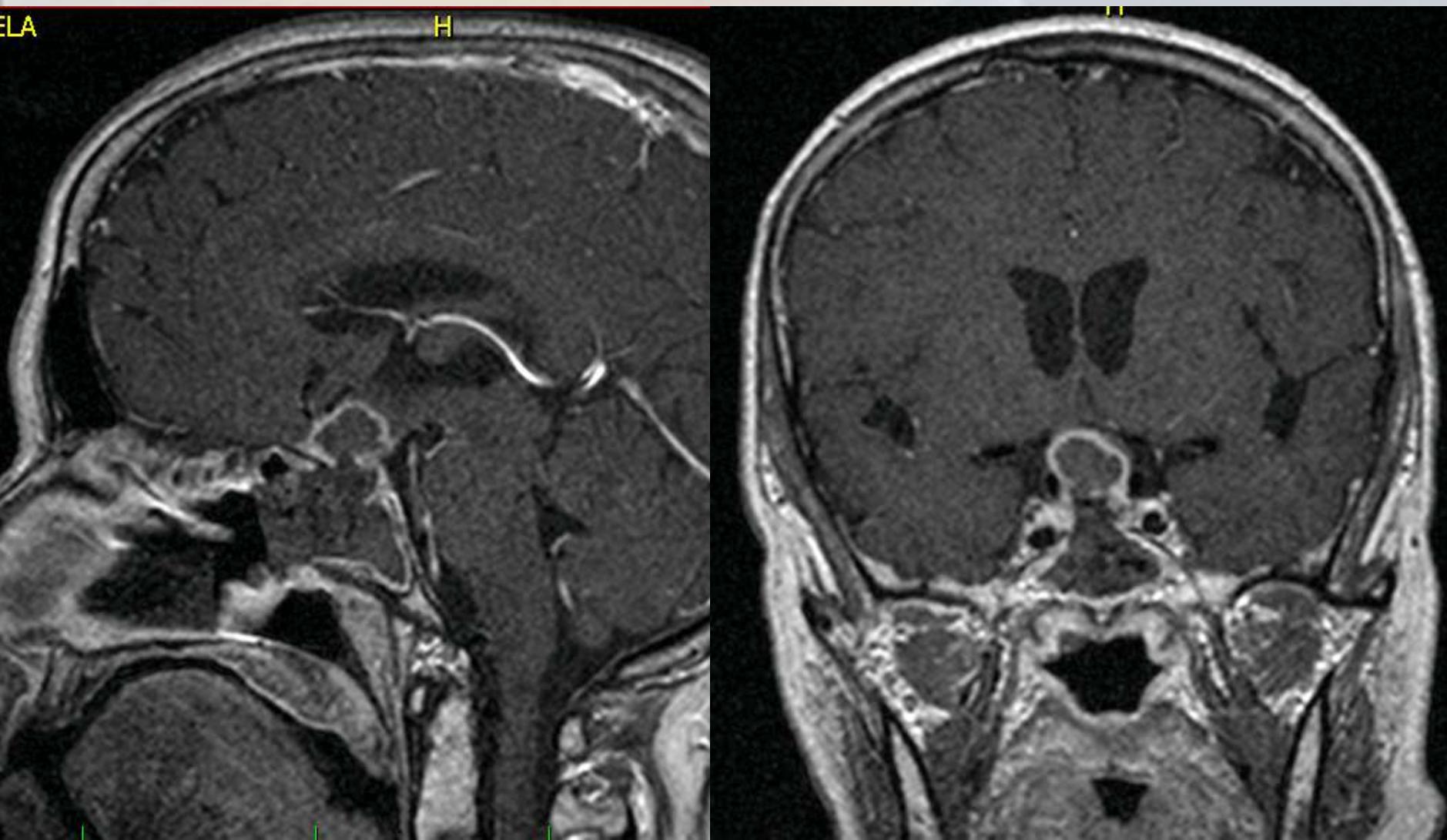


W 440 : L 196

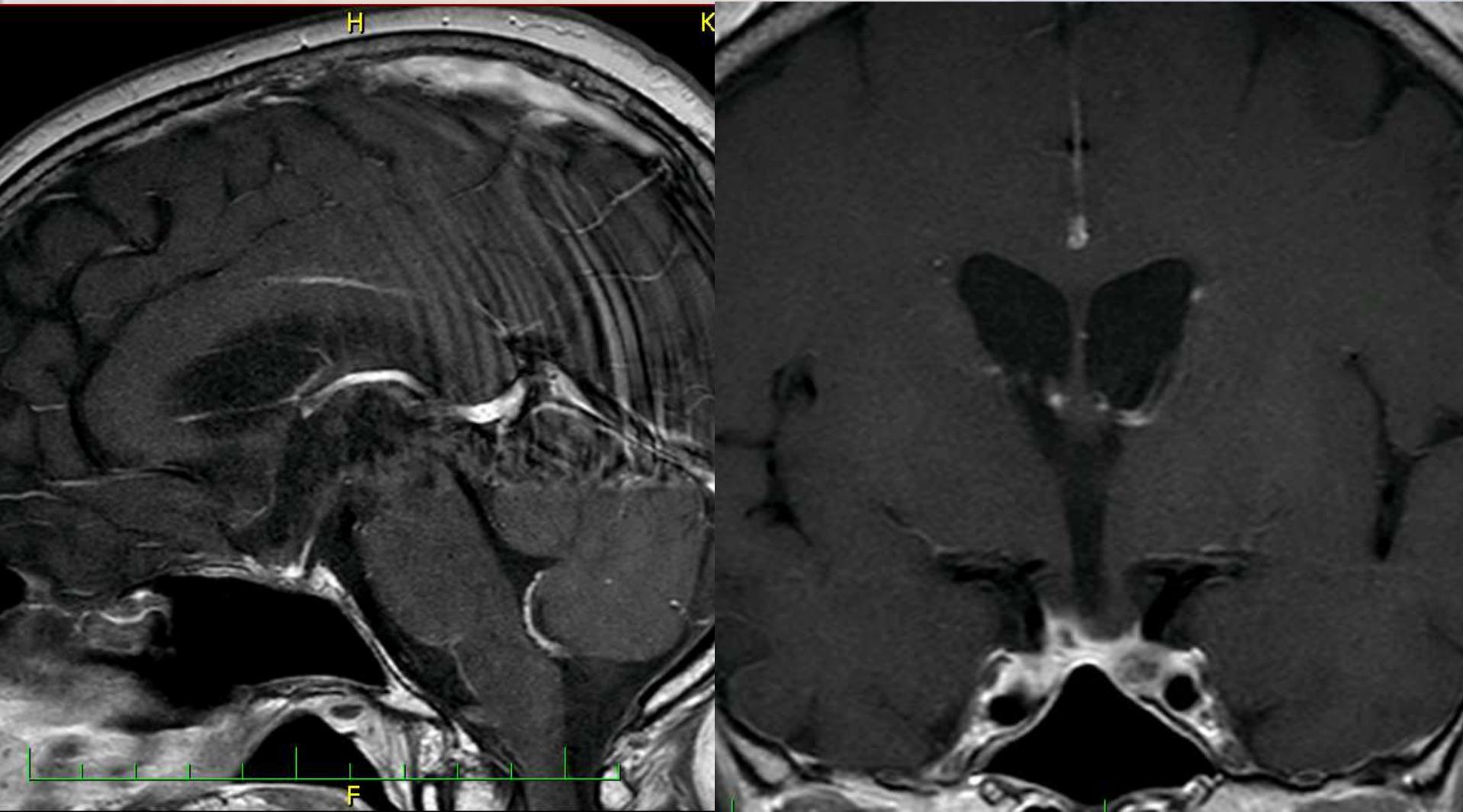
MR měsíc po operaci, susp. absces a znova
zhoršení visu OL, indikována revize



MR po revizi, peroperačně bez hnisu,
vypuštěna cystická složka a residuální
tumorezní hmoty

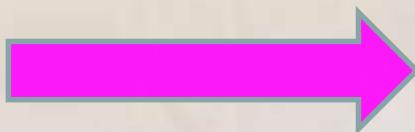


MR po 6 měsících, jen malé residuum capsuly
v sedle, OP stále slepé, OL zlepšeno.
Zajímavý prolaps fundu III. komory

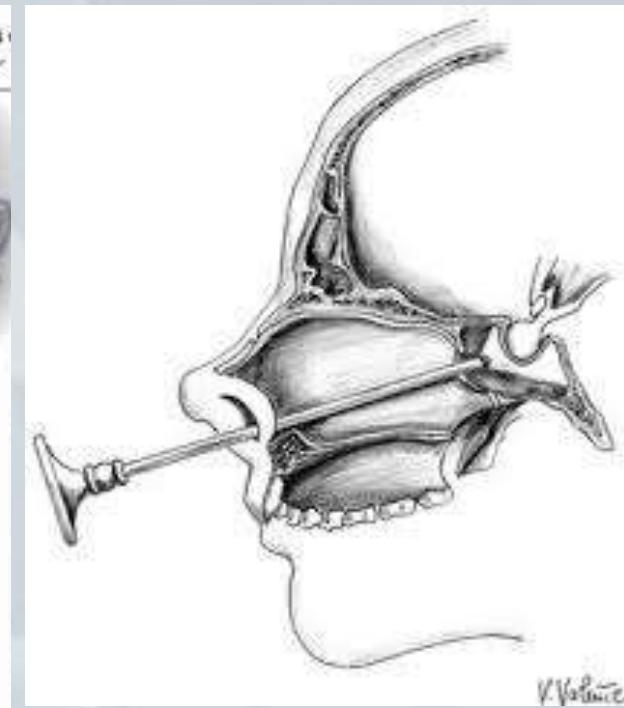
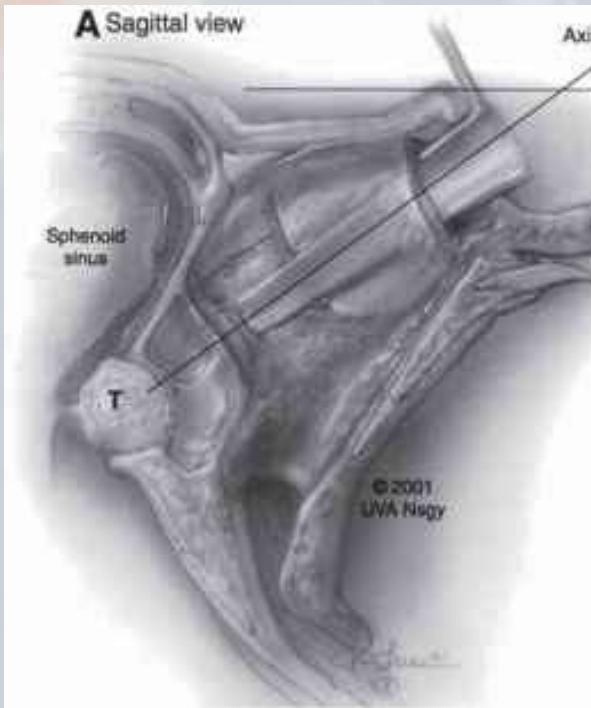
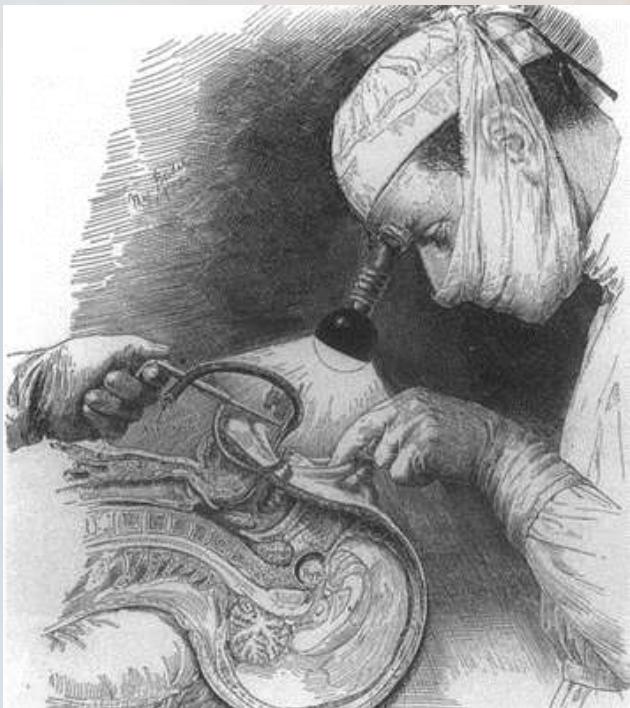


Microsurgery x endoscopy pituitary surgery

Schloffer 1907
Cushing 1912



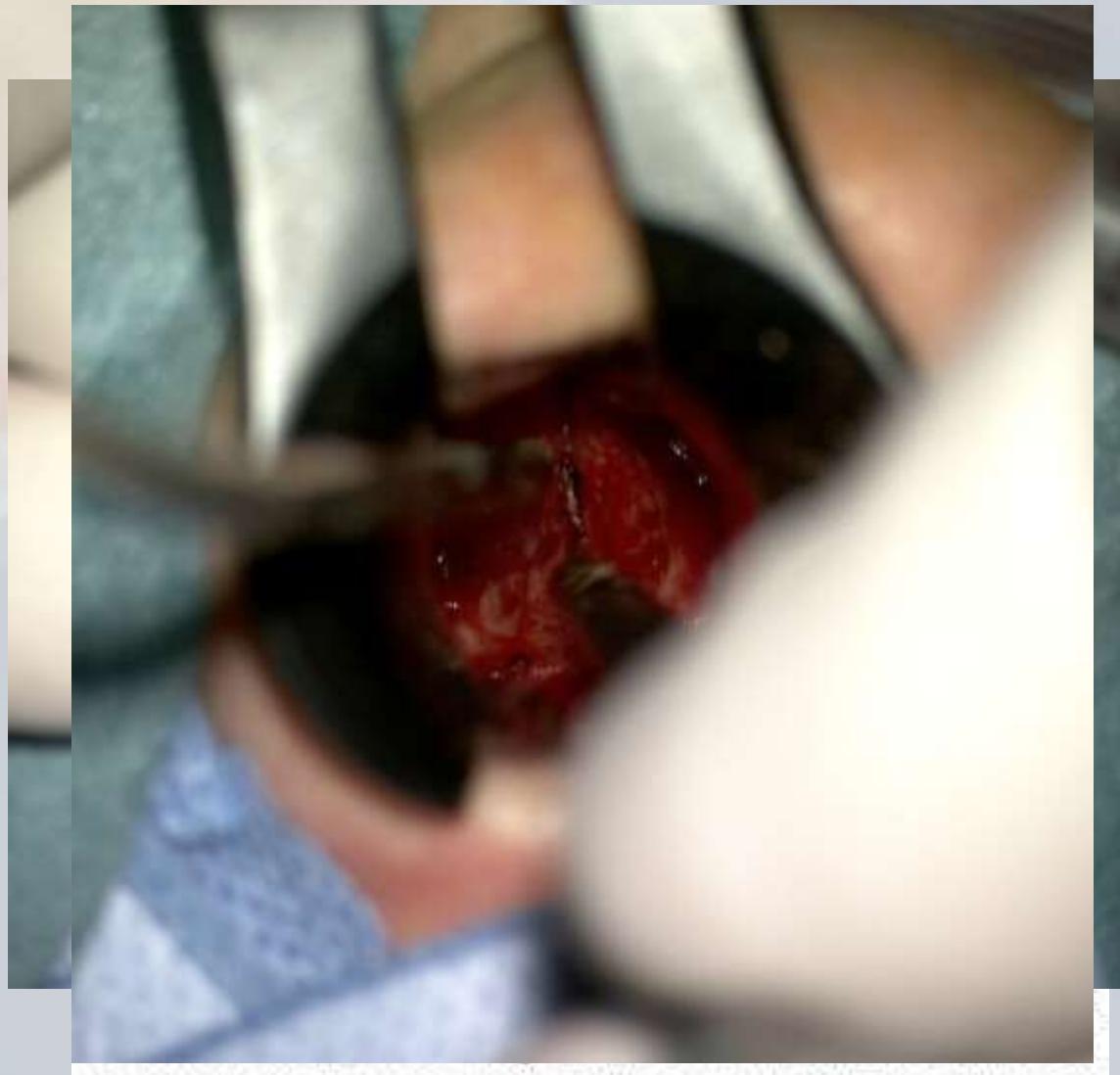
Griffith Direct transnasal 1987
Jankowski Endoscopic surgery 1992



Direct transnasal approach

H.B.Griffith
J.Neurosurg, 1987

nasal septum



Direct transnasal approach



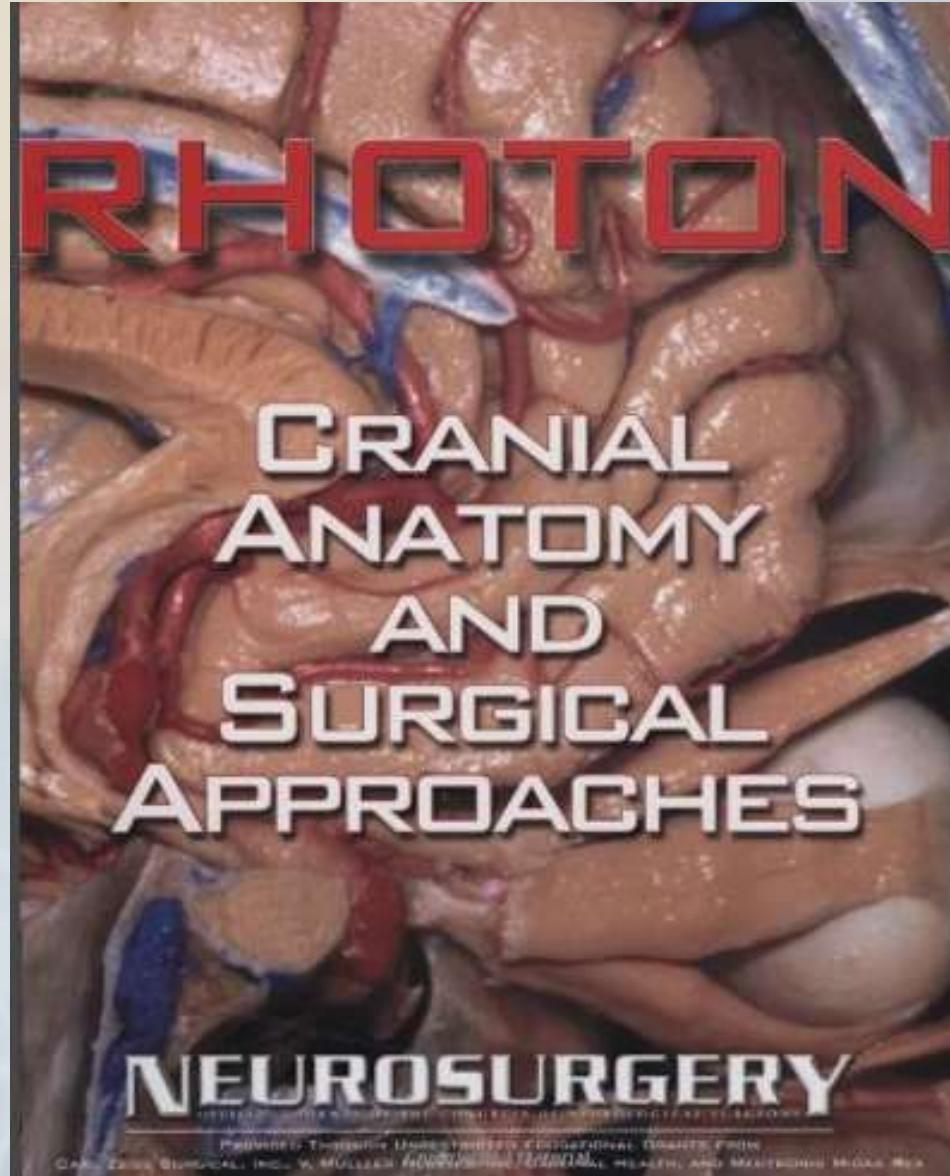
Reconstruction technique for CSF leak



Tachosil
Fascia lata
Fat
Tissucol

Nasopore





alberto.malucelli@kzcr.eu

**GRAZIE PER
L'ATTENZIONE!**

