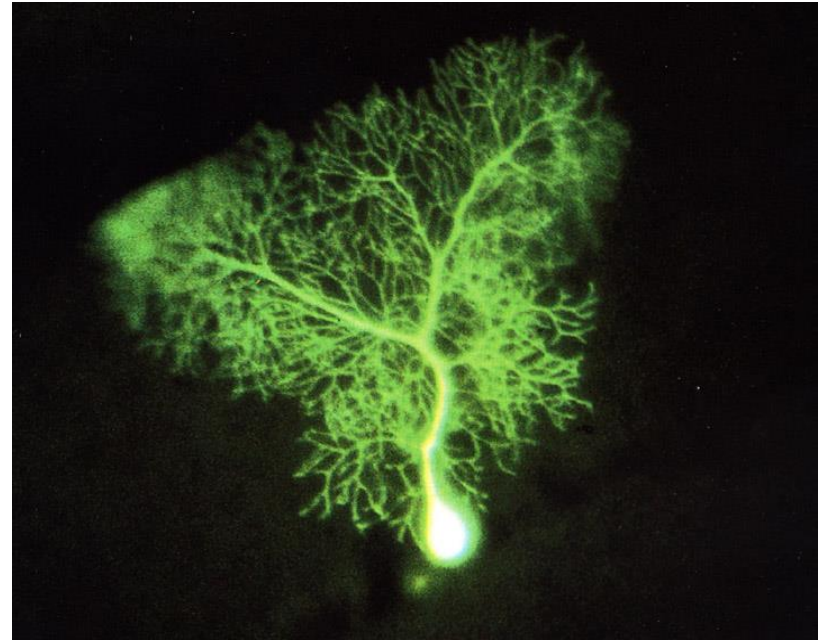
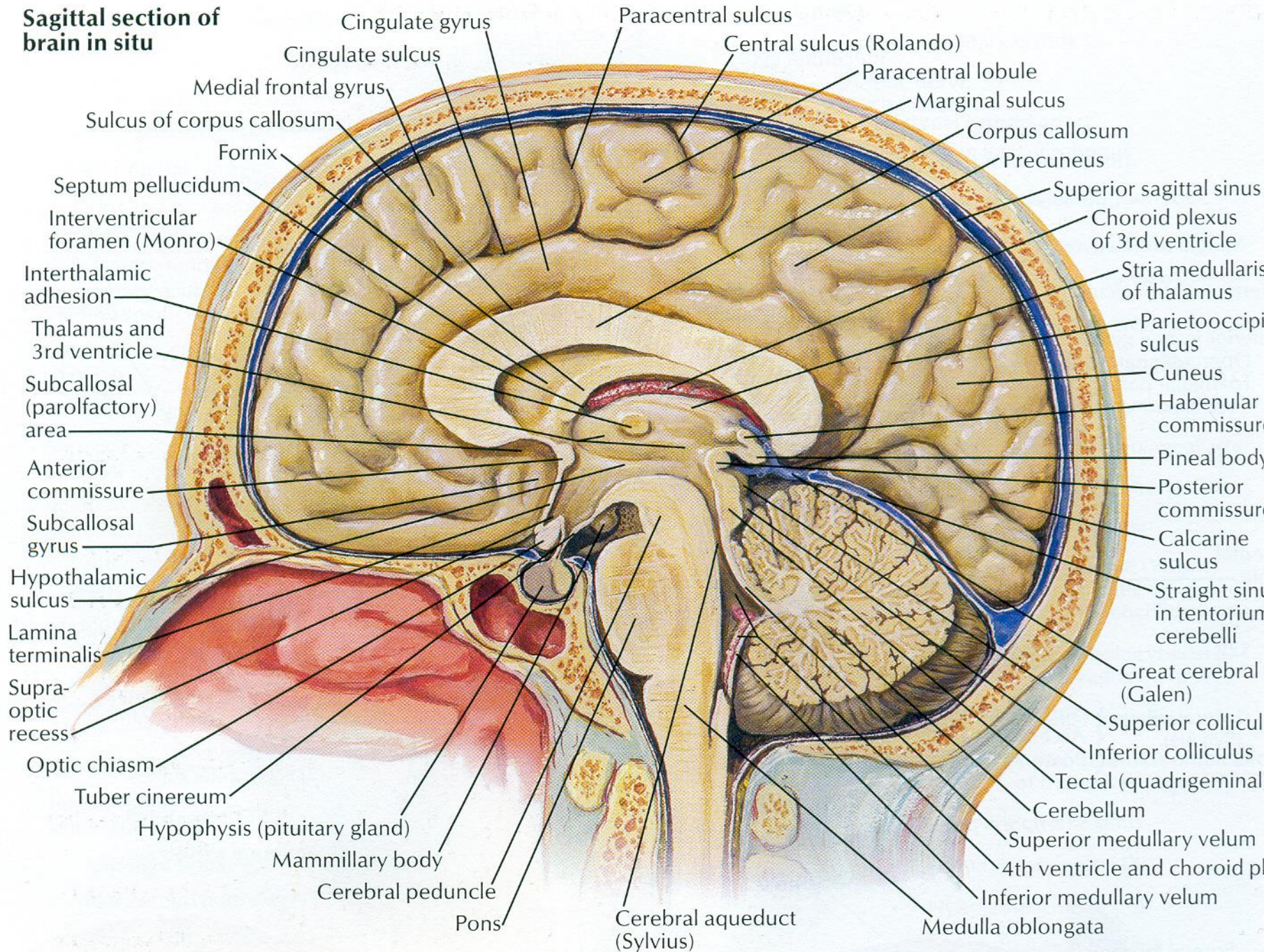


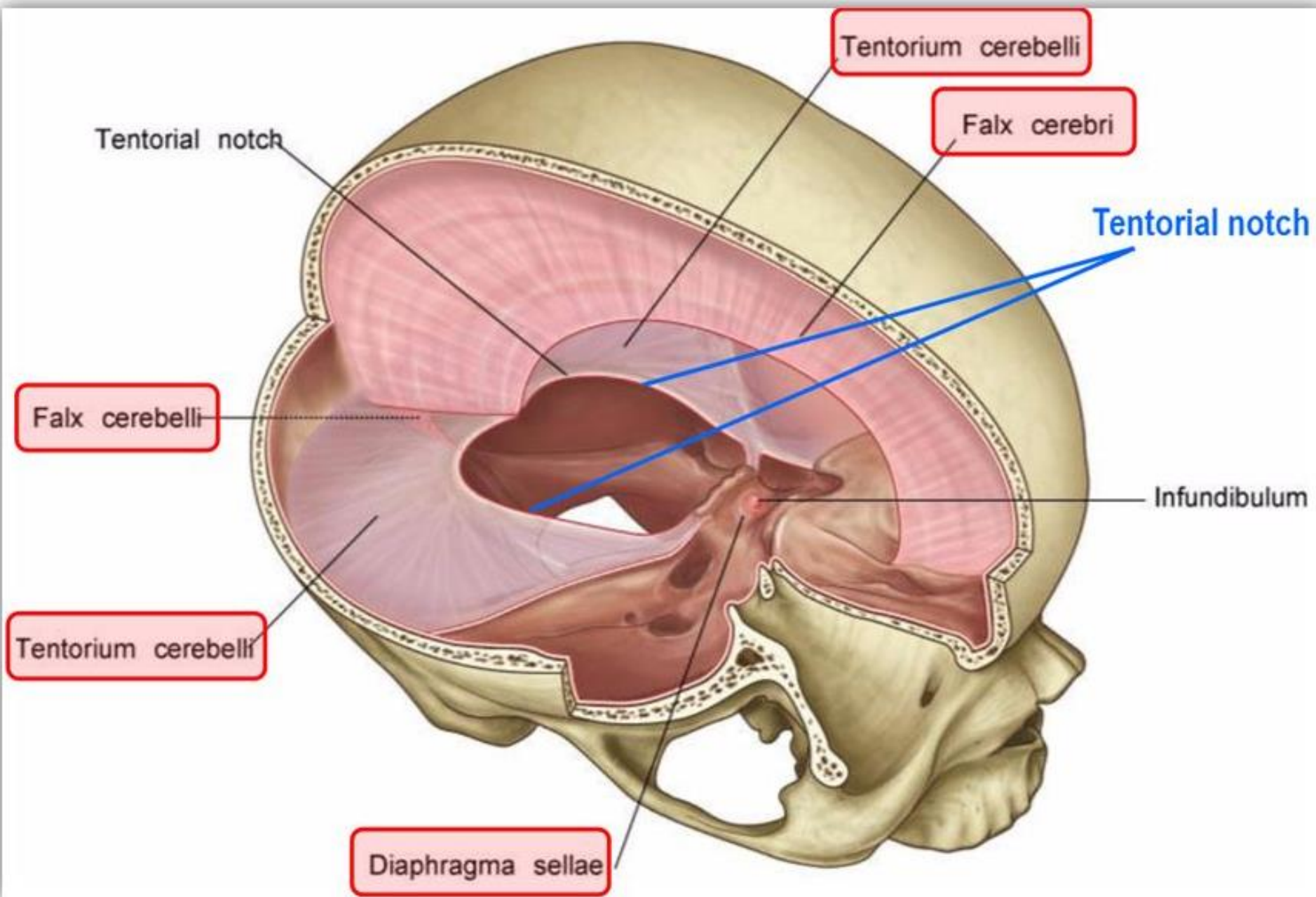
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Cerebellum مخچه

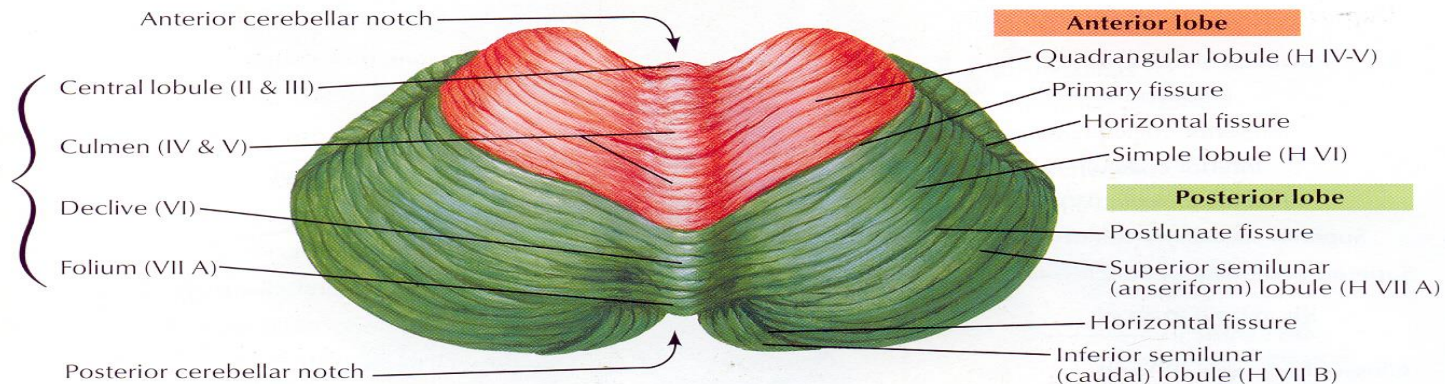


Sagittal section of brain in situ

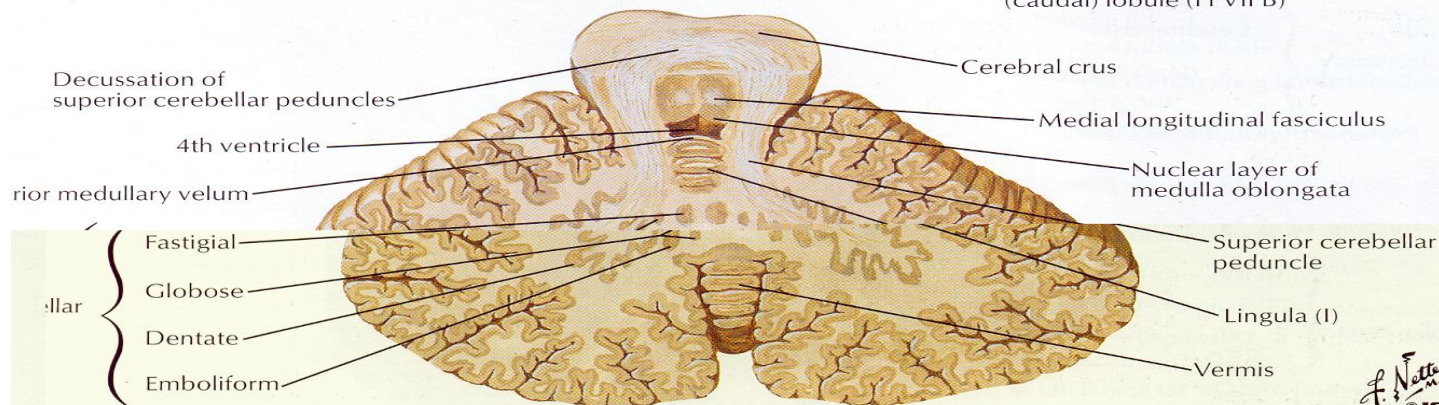
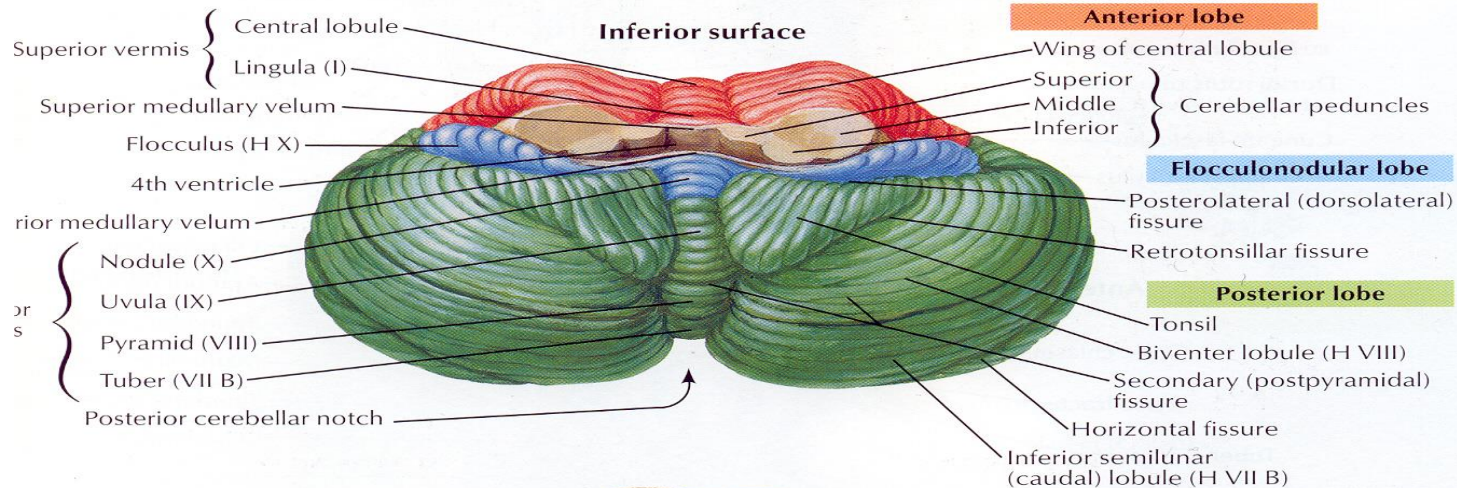




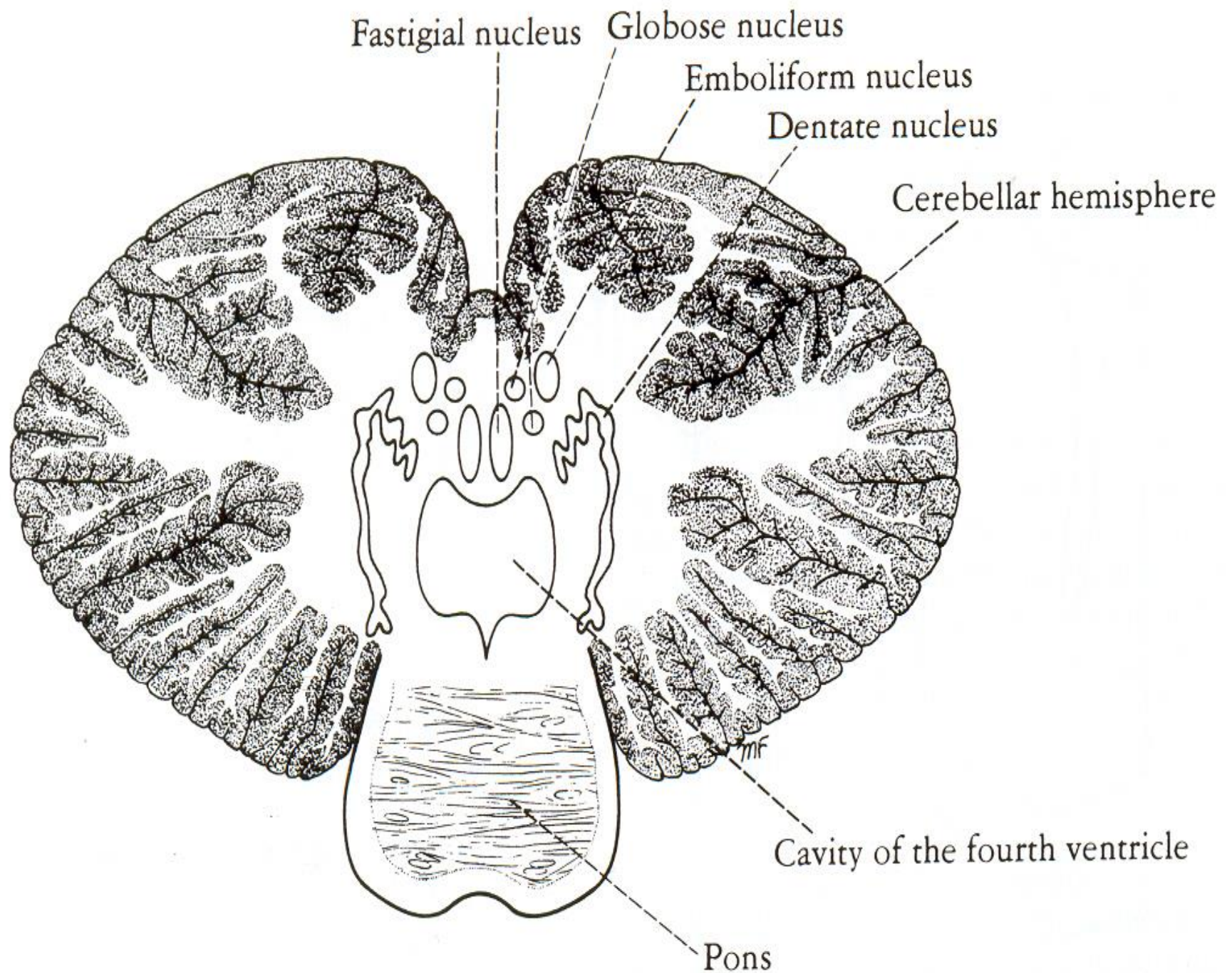
Superior surface



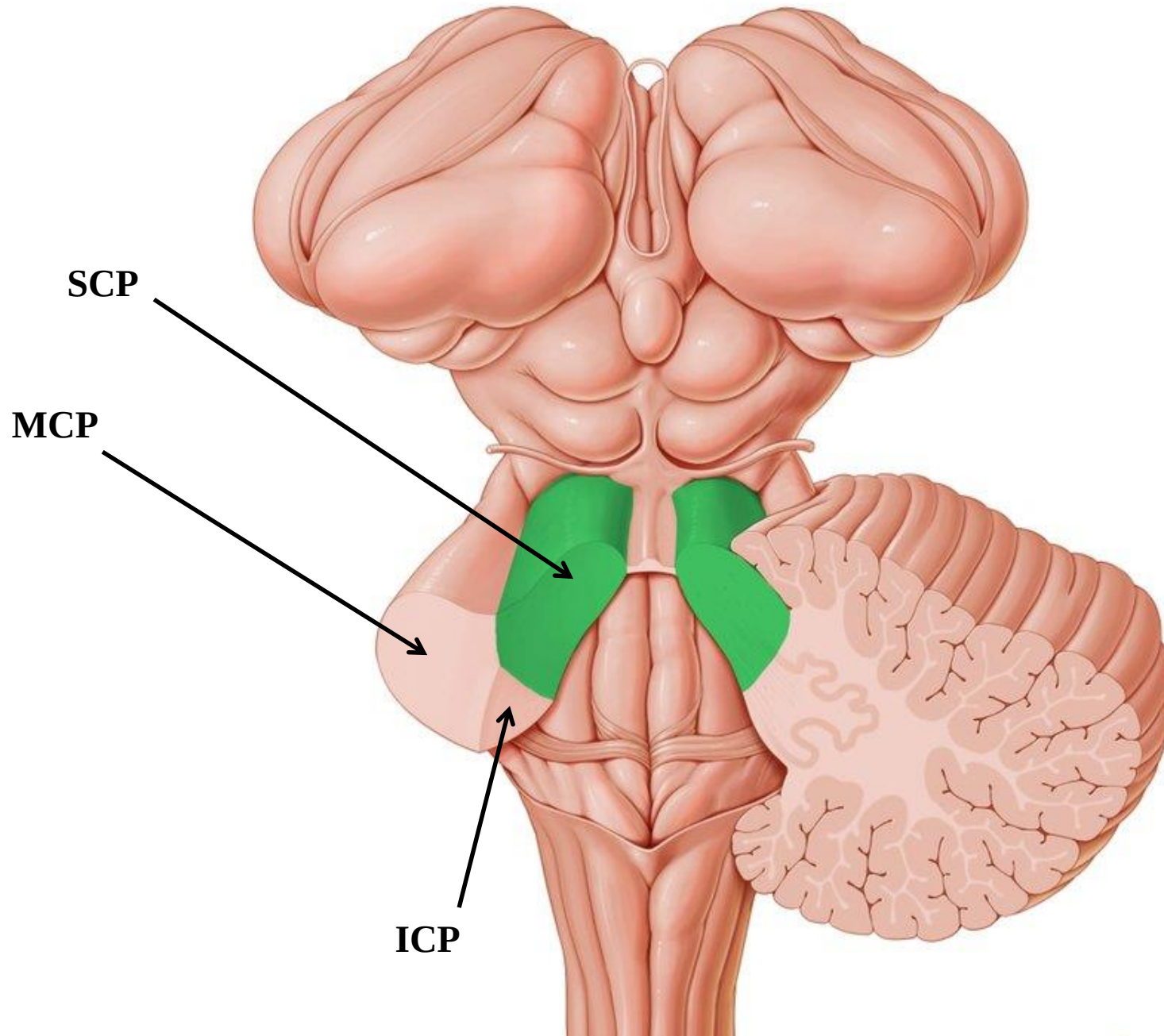
Inferior surface



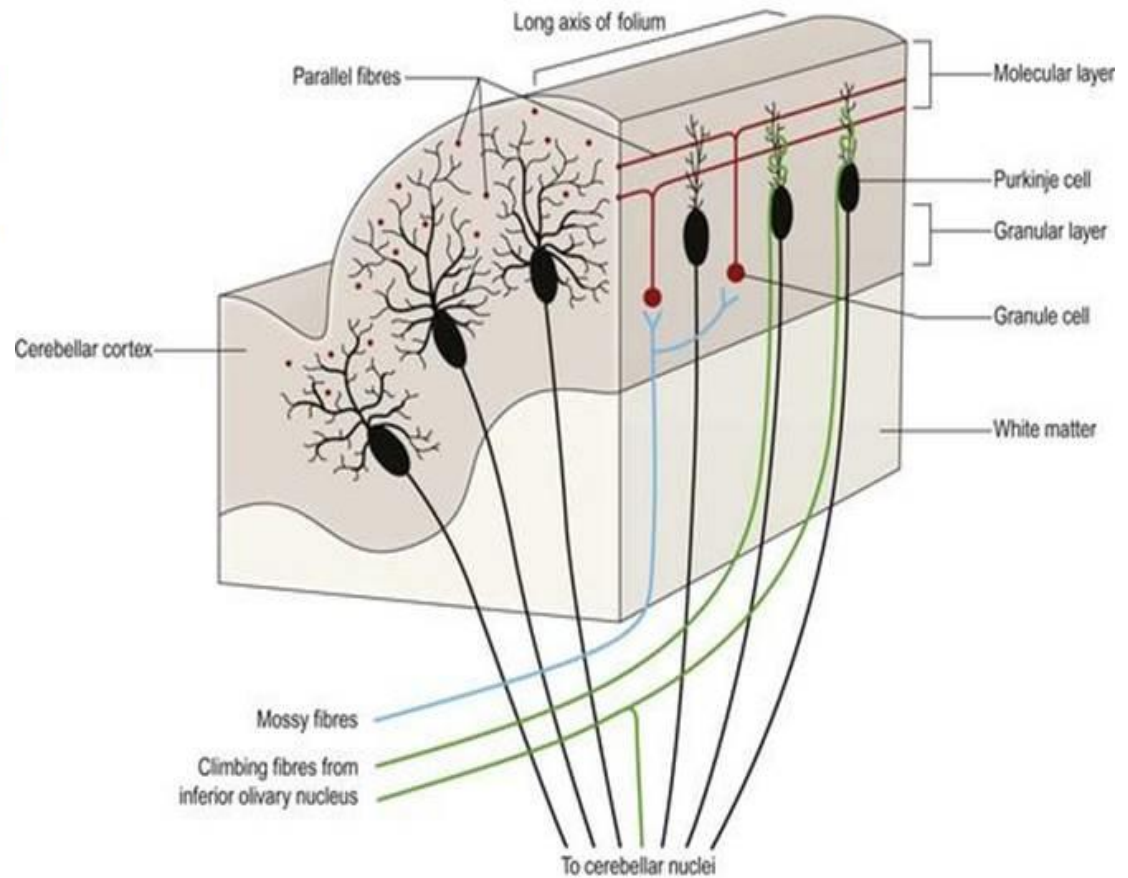
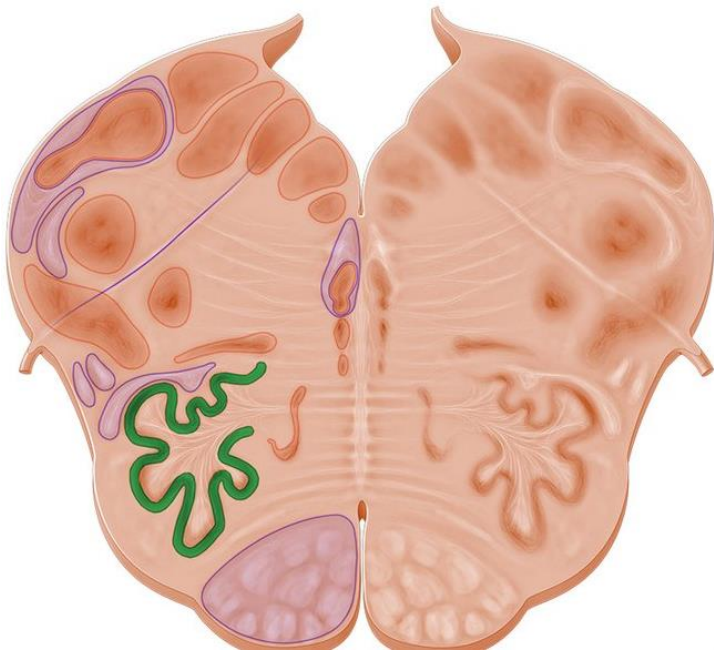
Section in plane of superior cerebellar peduncle

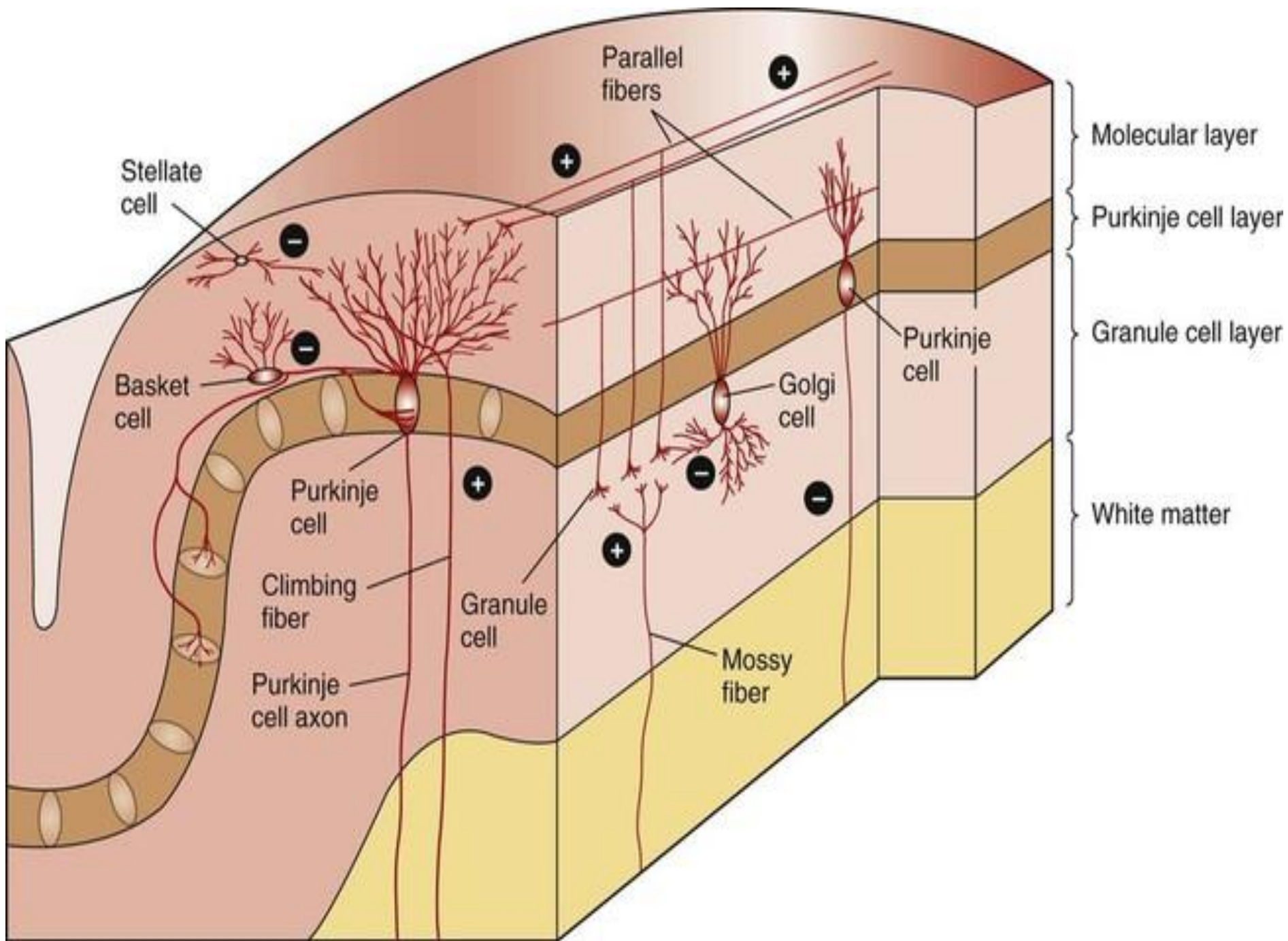


Cerebellar peduncles

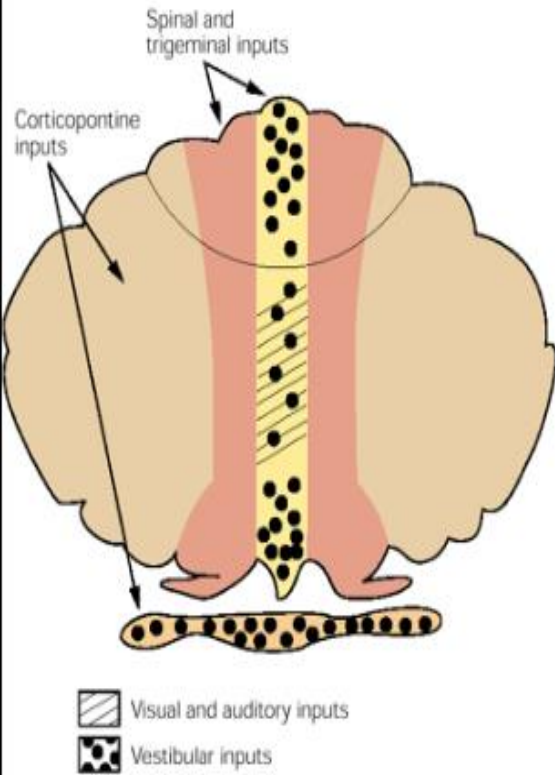


Inferior olivary nucleus

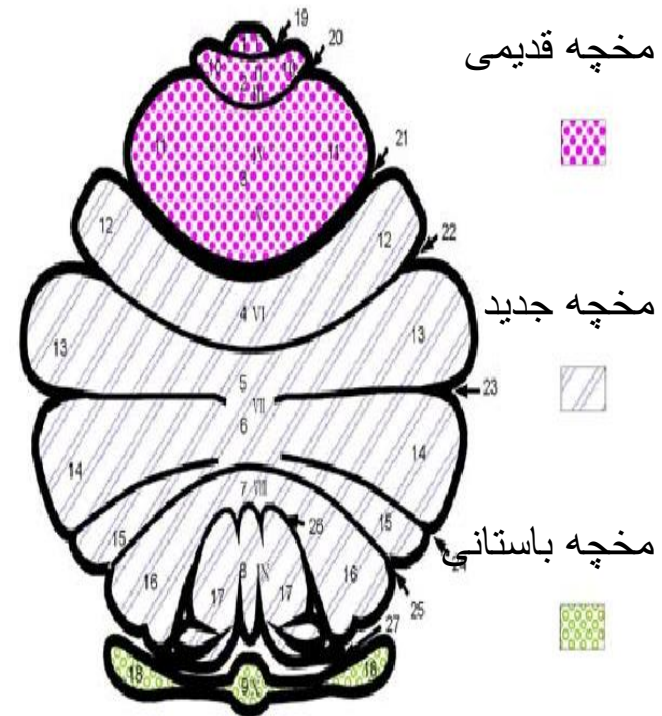
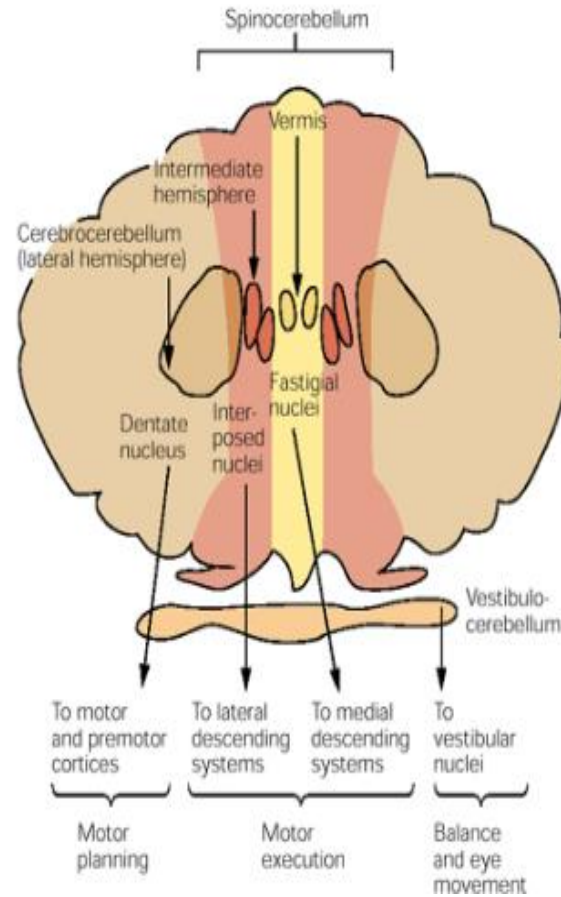




A Inputs



B Outputs



Efferent axon
leaving
cerebellum

(Red nucleus,
Vestibular nucleus,
Cerebral cortex)

Cerebellar
cortex

Purkinje
cell

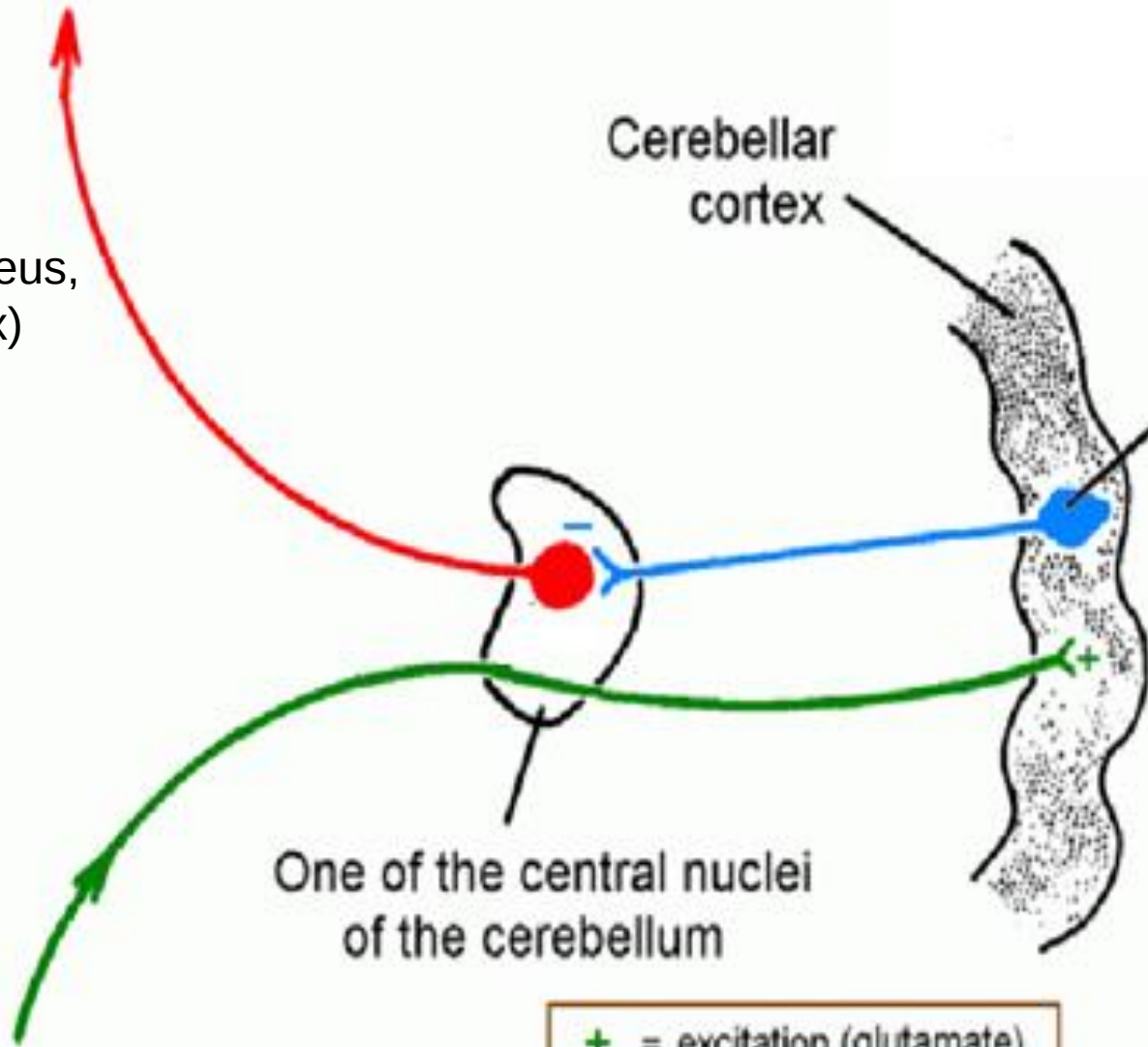
Afferent axon
entering
cerebellum

(climbing fibers,
mossy fibers)

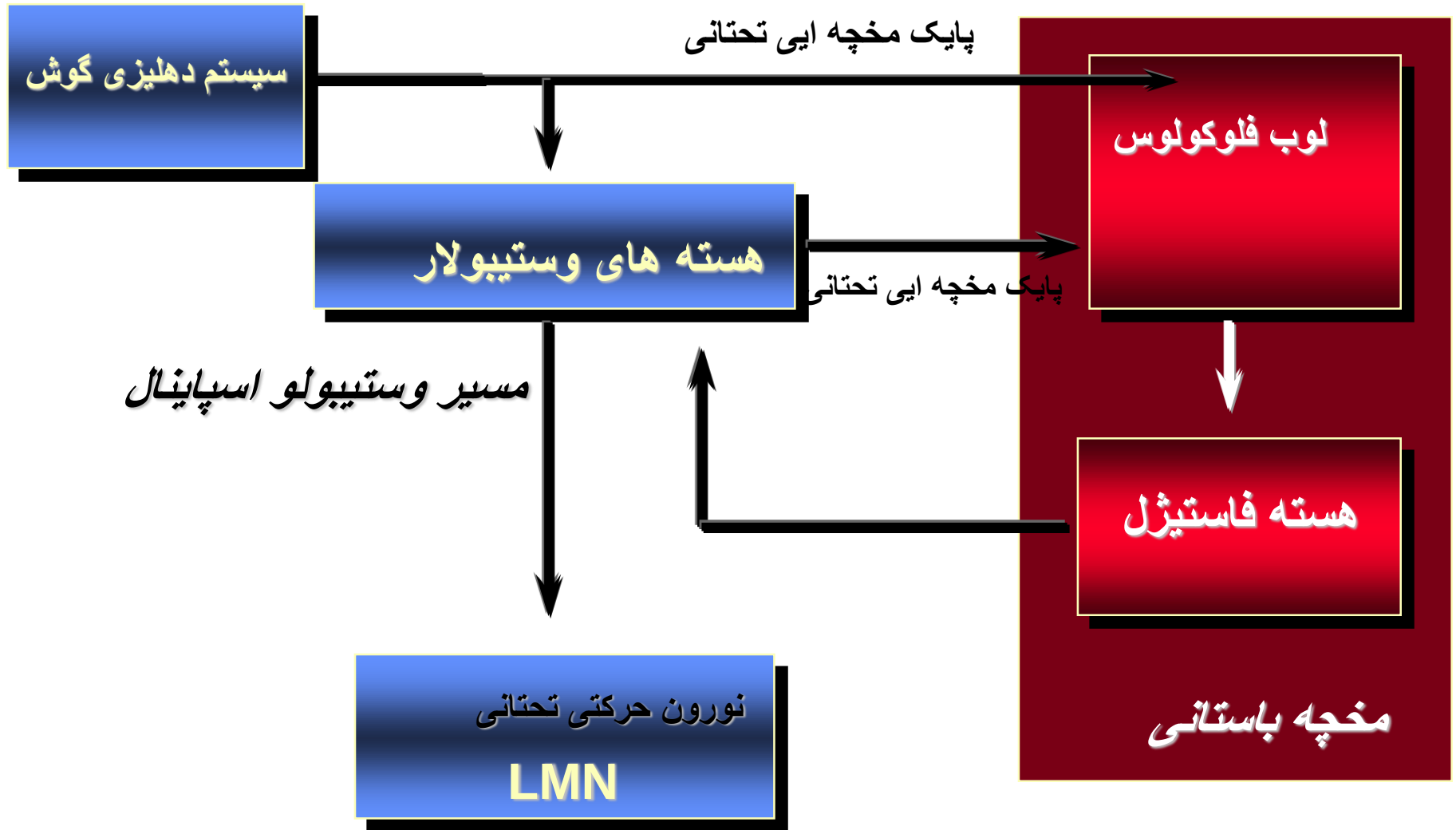
One of the central nuclei
of the cerebellum

+ = excitation (glutamate)

- = inhibition (GABA)



ارتباطات مخچه باستانی (وستیبولوسرلوم)



مسیر مخچه قدیمی (اسپینوسریبلوم)

هسته قرمز

هسته های
گلبوس و امبلی فورمیس

قشر مخچه
قدیمی

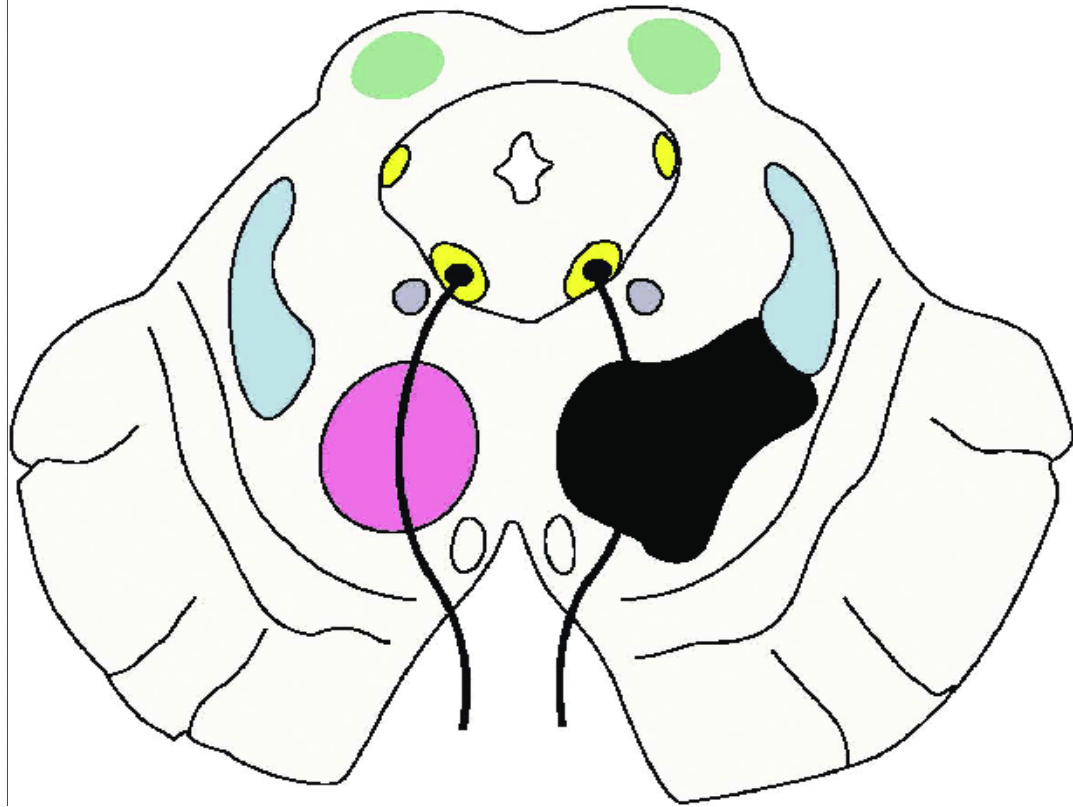
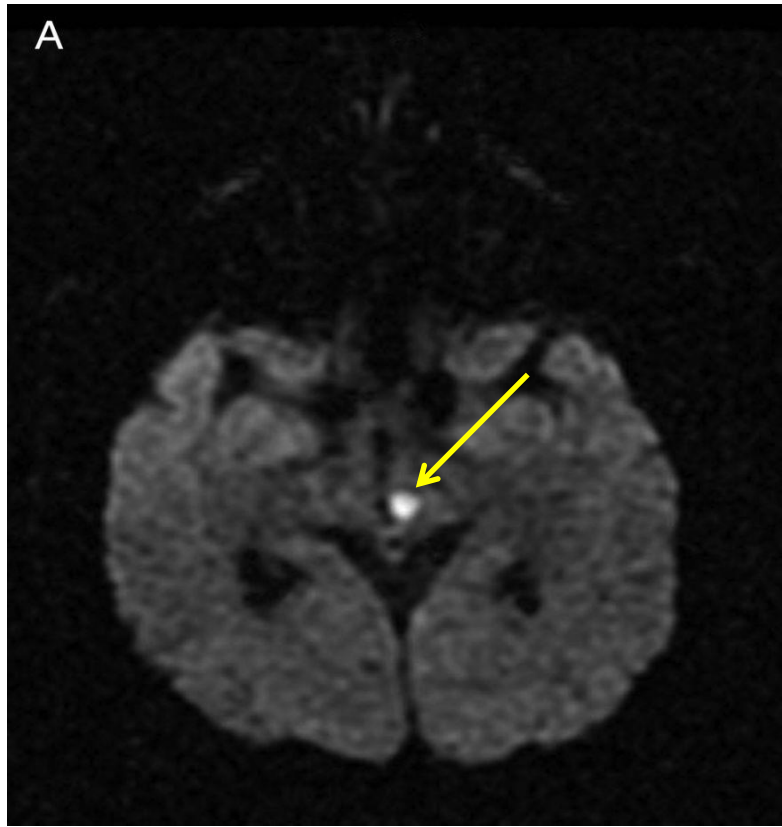
مخچه قدیمی

نورون حرکتی تحتانی
SPINAL CORD

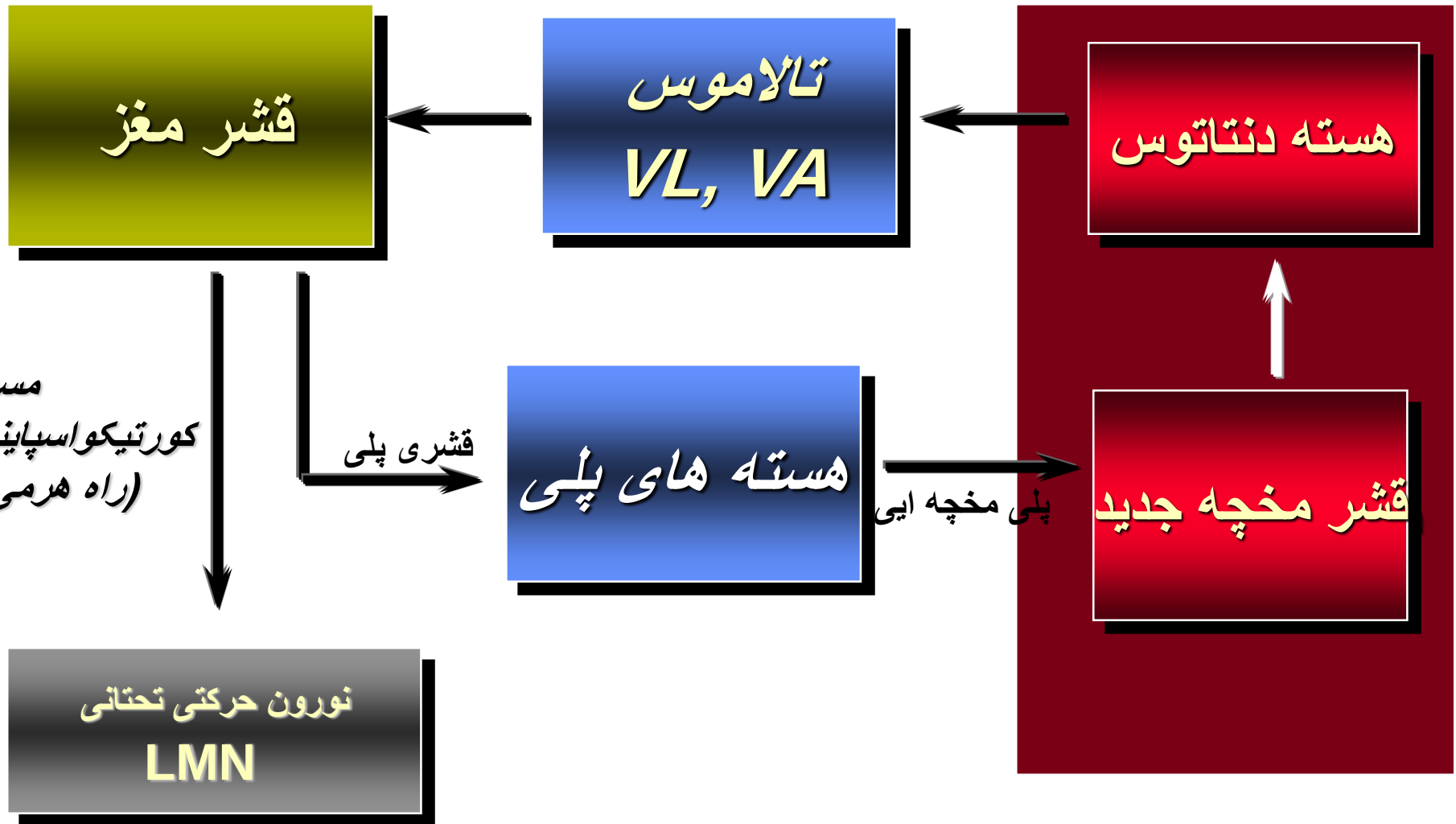
مسیرهای اسپینوسریبلار
(انتریور اسپینوسریبلار،
پوستریور اسپینوسریبلار،
کونئوسریبلار)

مسیر روبرو اسپینال

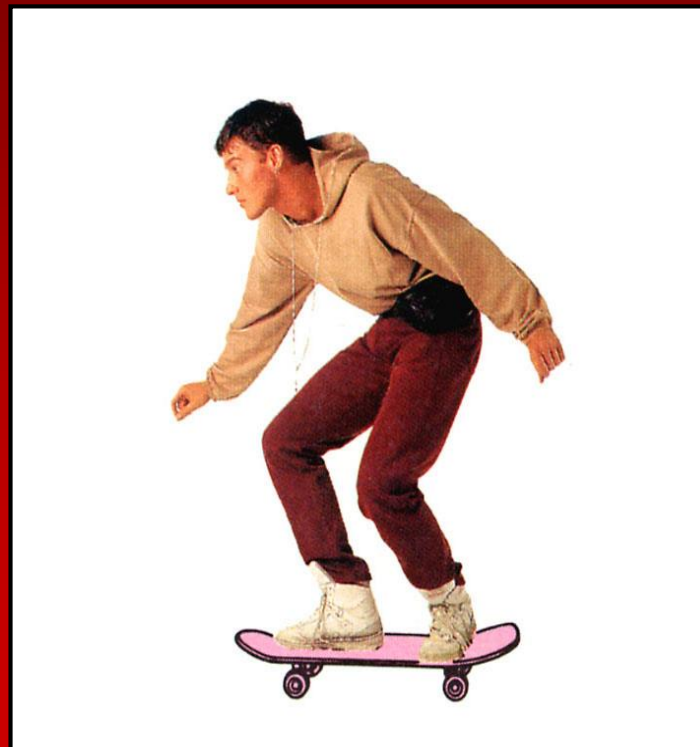
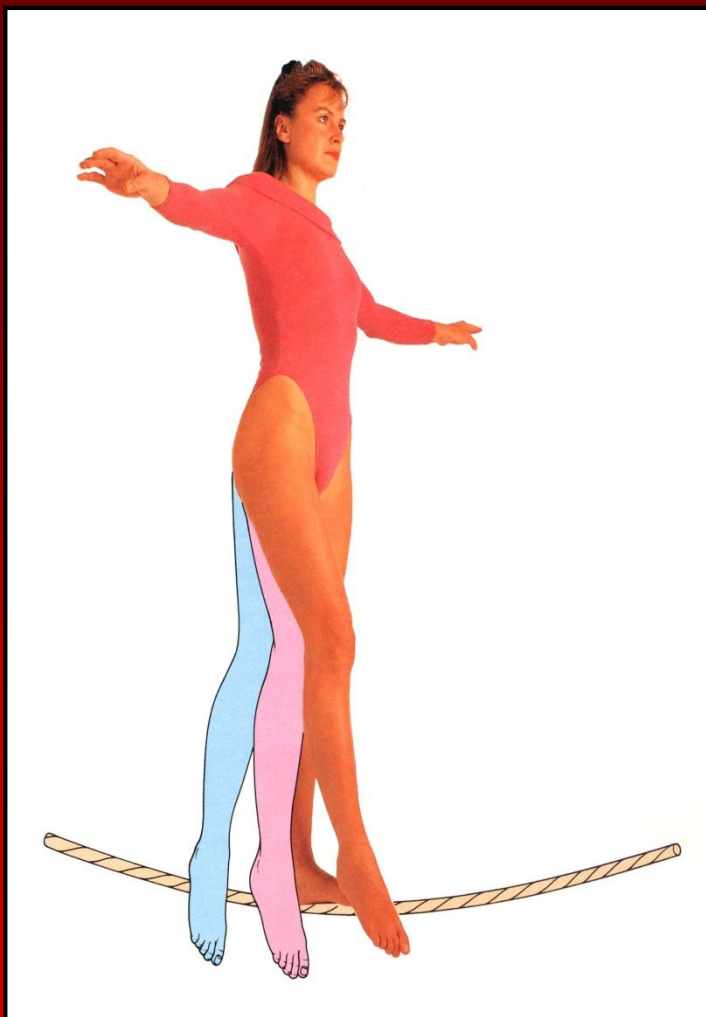
Paramedian Midbrain Infarction (Benedikt syndrome)



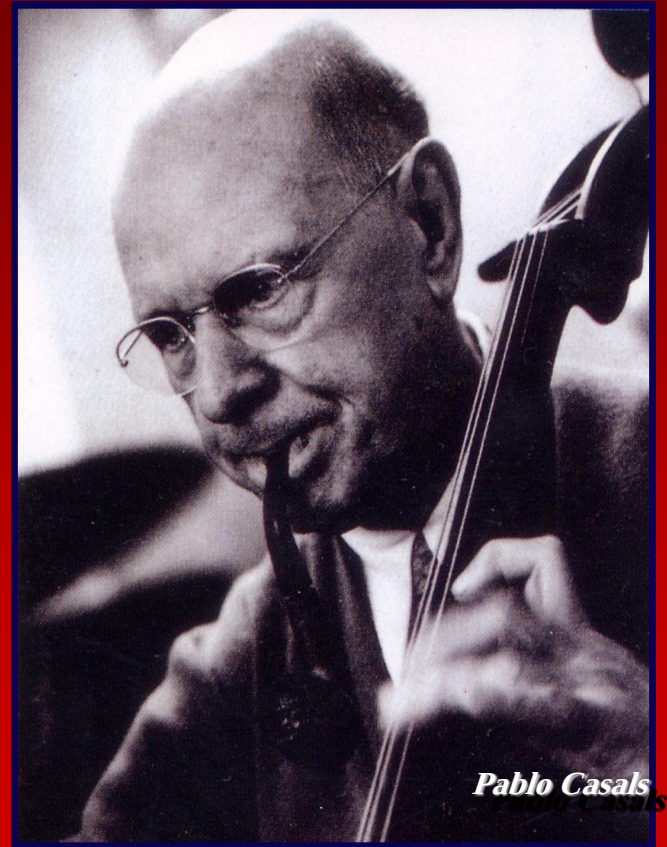
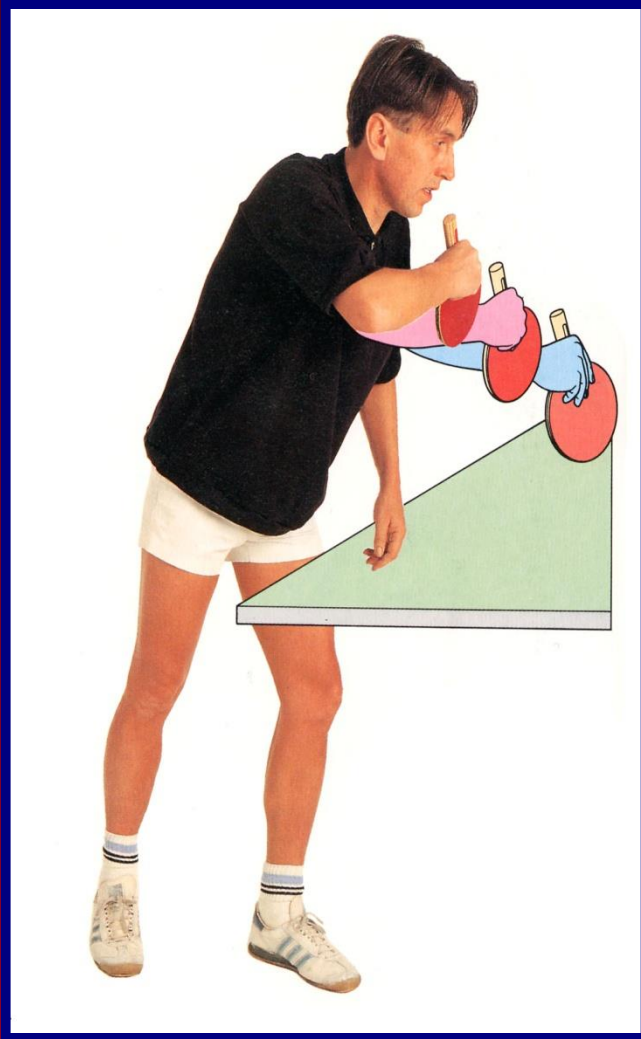
مسیر مخچه جدید (سربروسربلار)



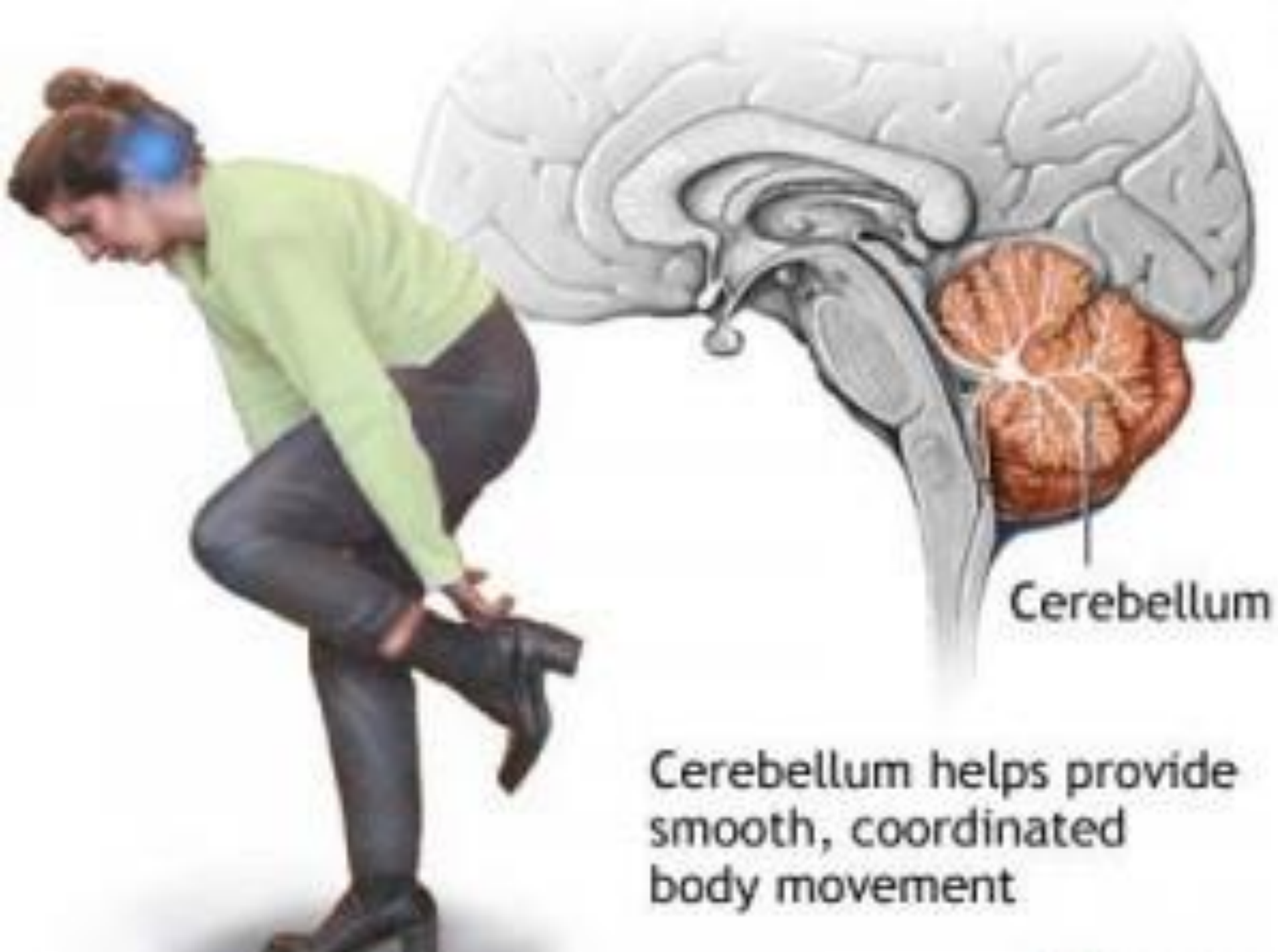
Balance



Motor Skill

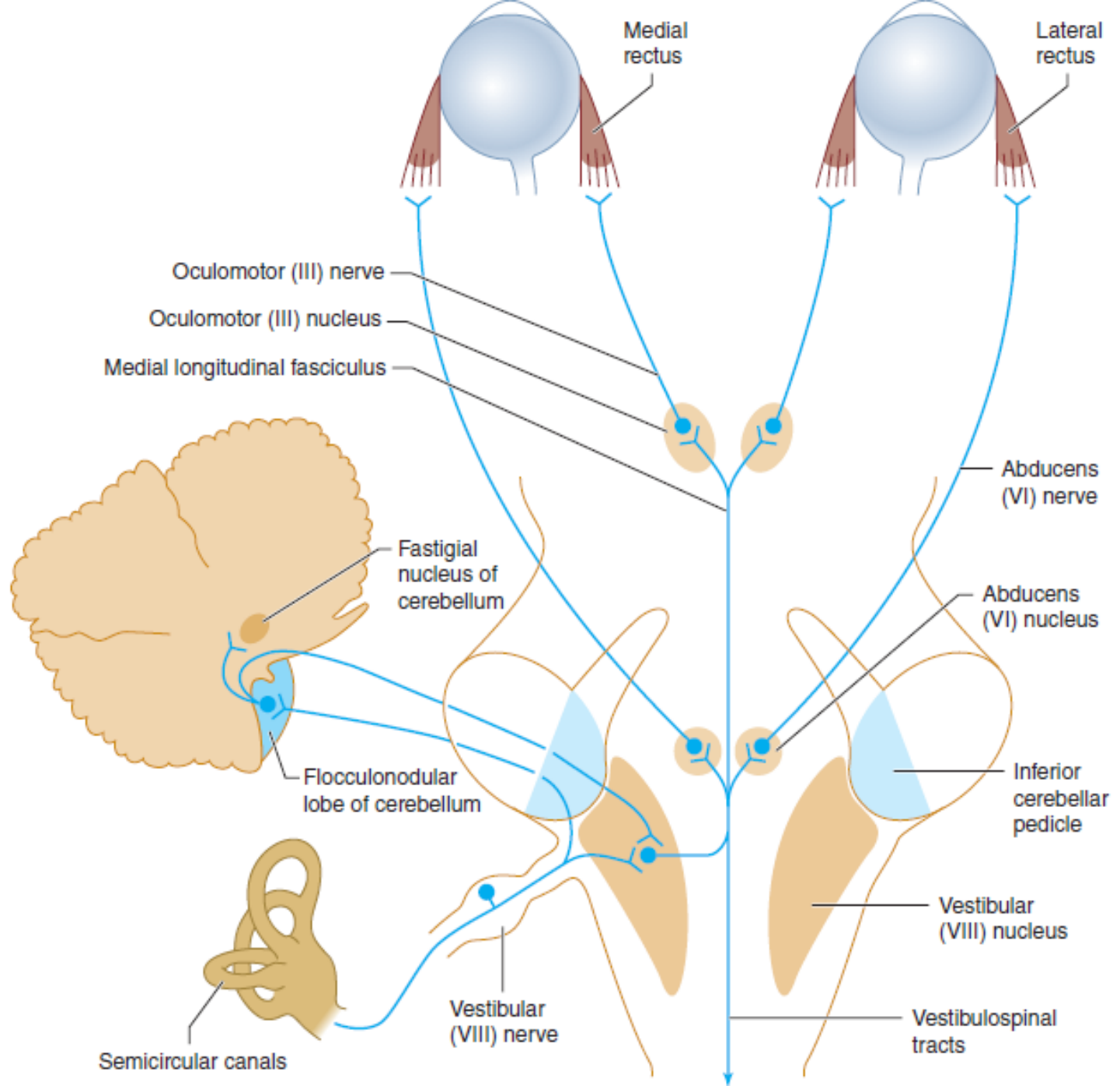


Pablo Casals
Pablo Casals



Cerebellum

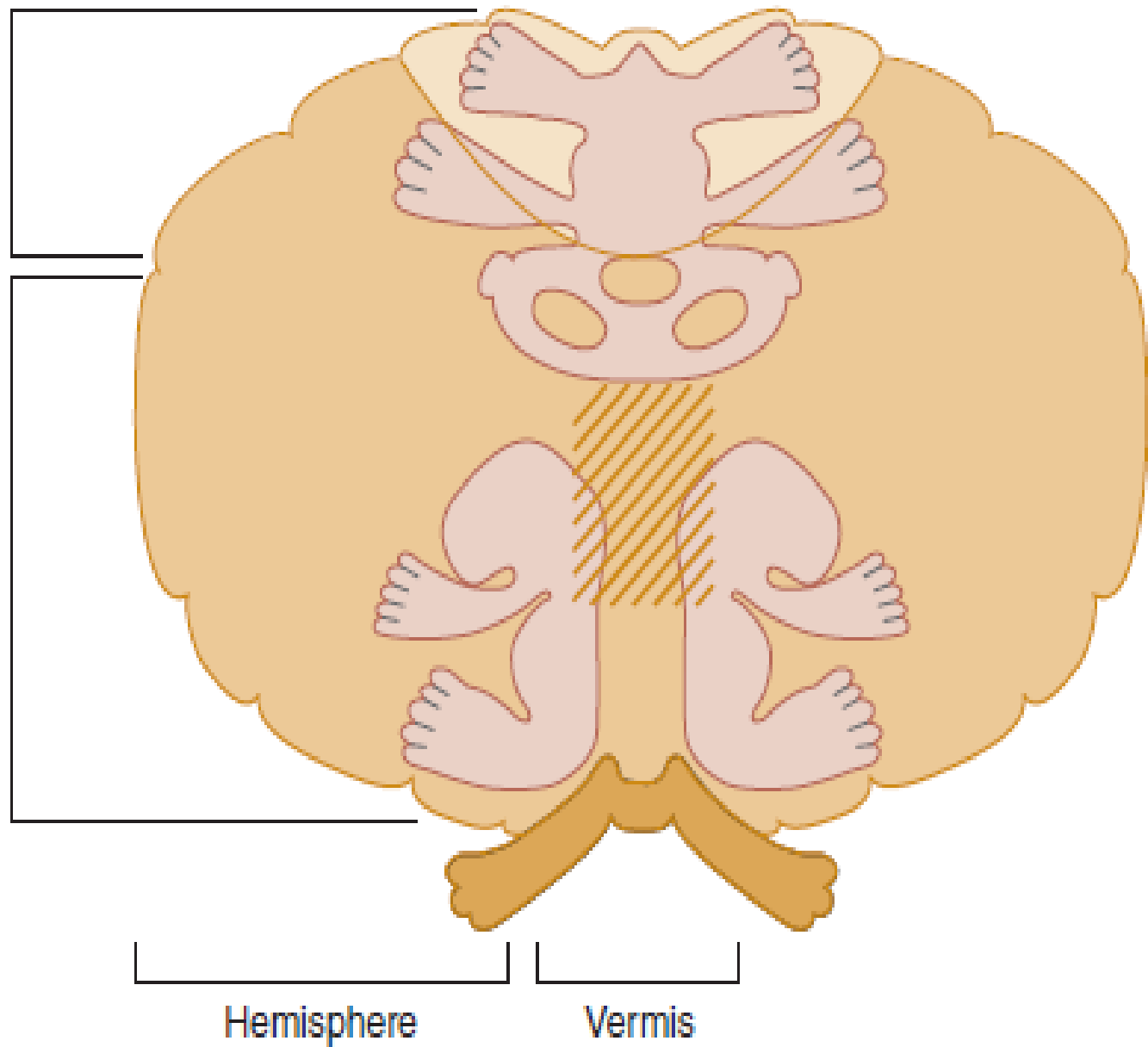
Cerebellum helps provide smooth, coordinated body movement



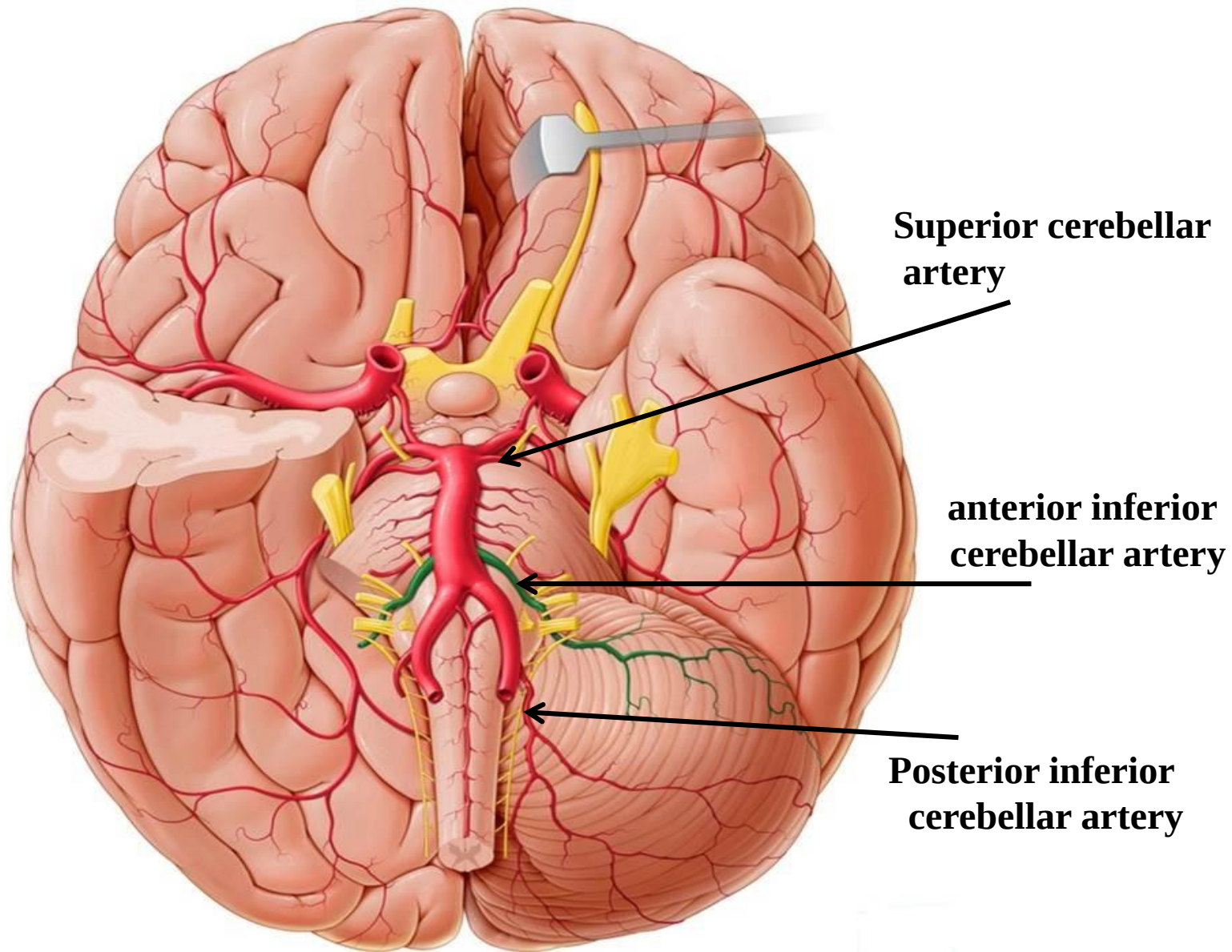


Anterior lobe

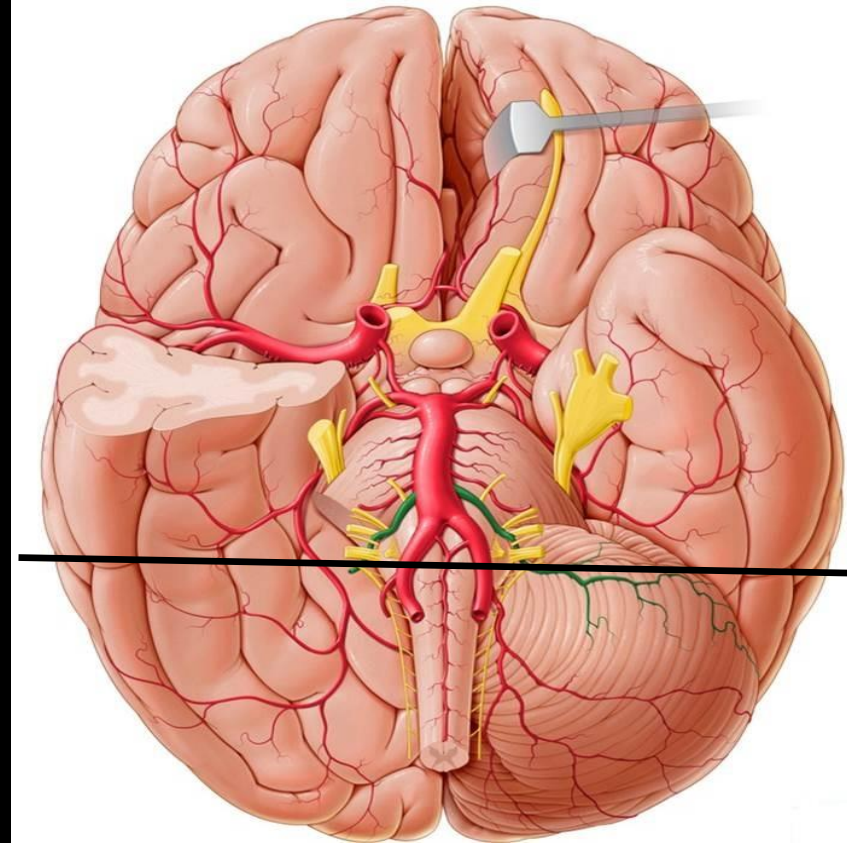
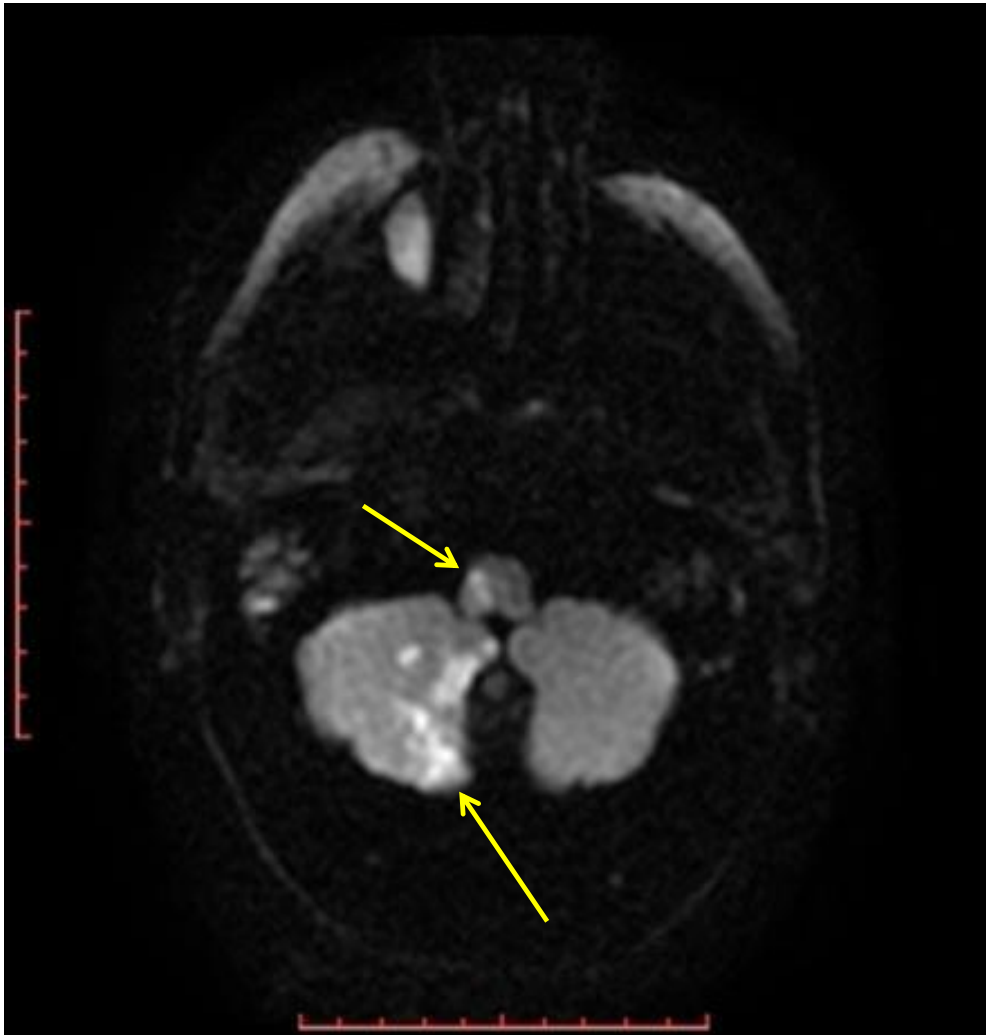
Posterior lobe



Cerebellar artery

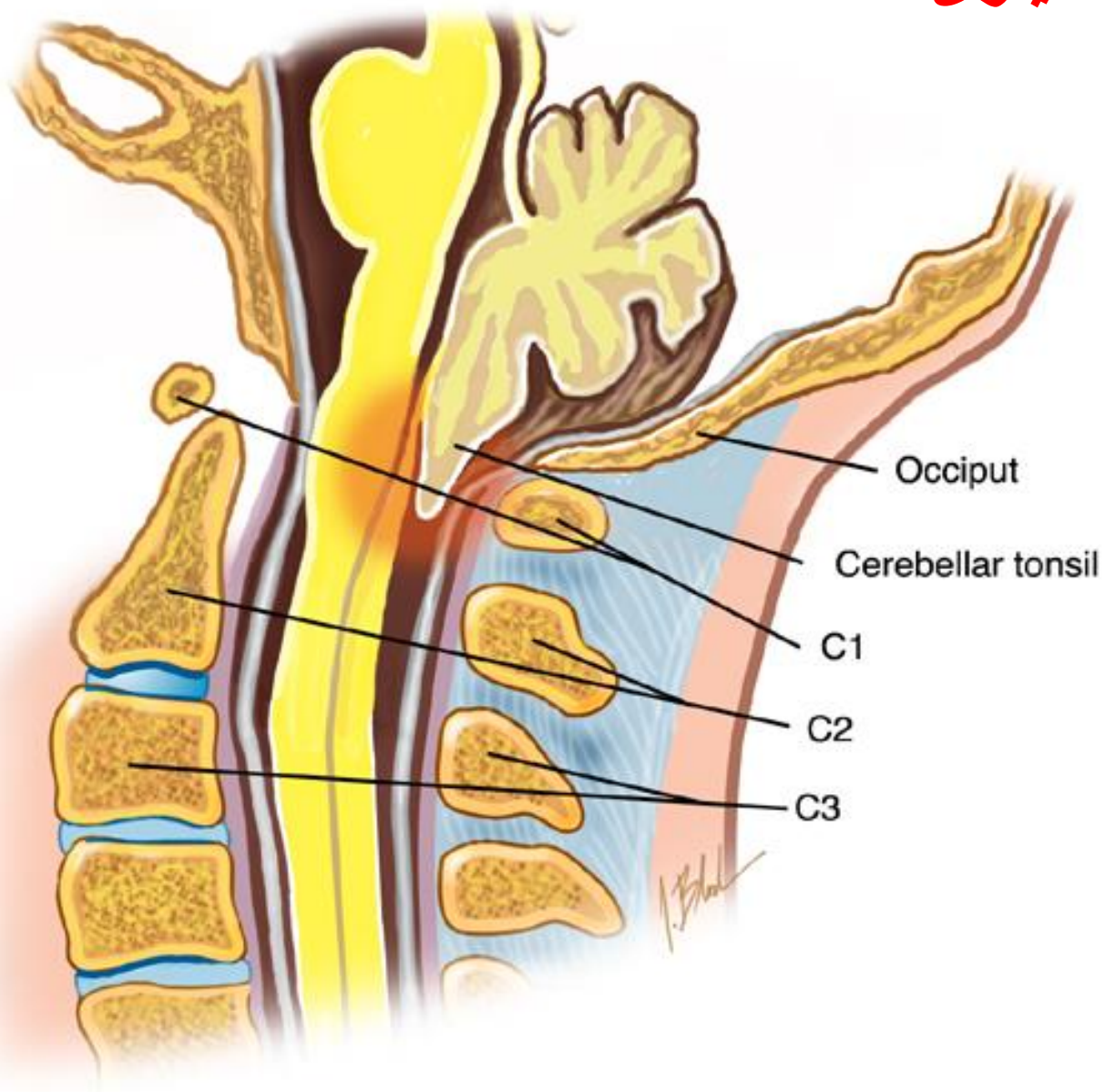


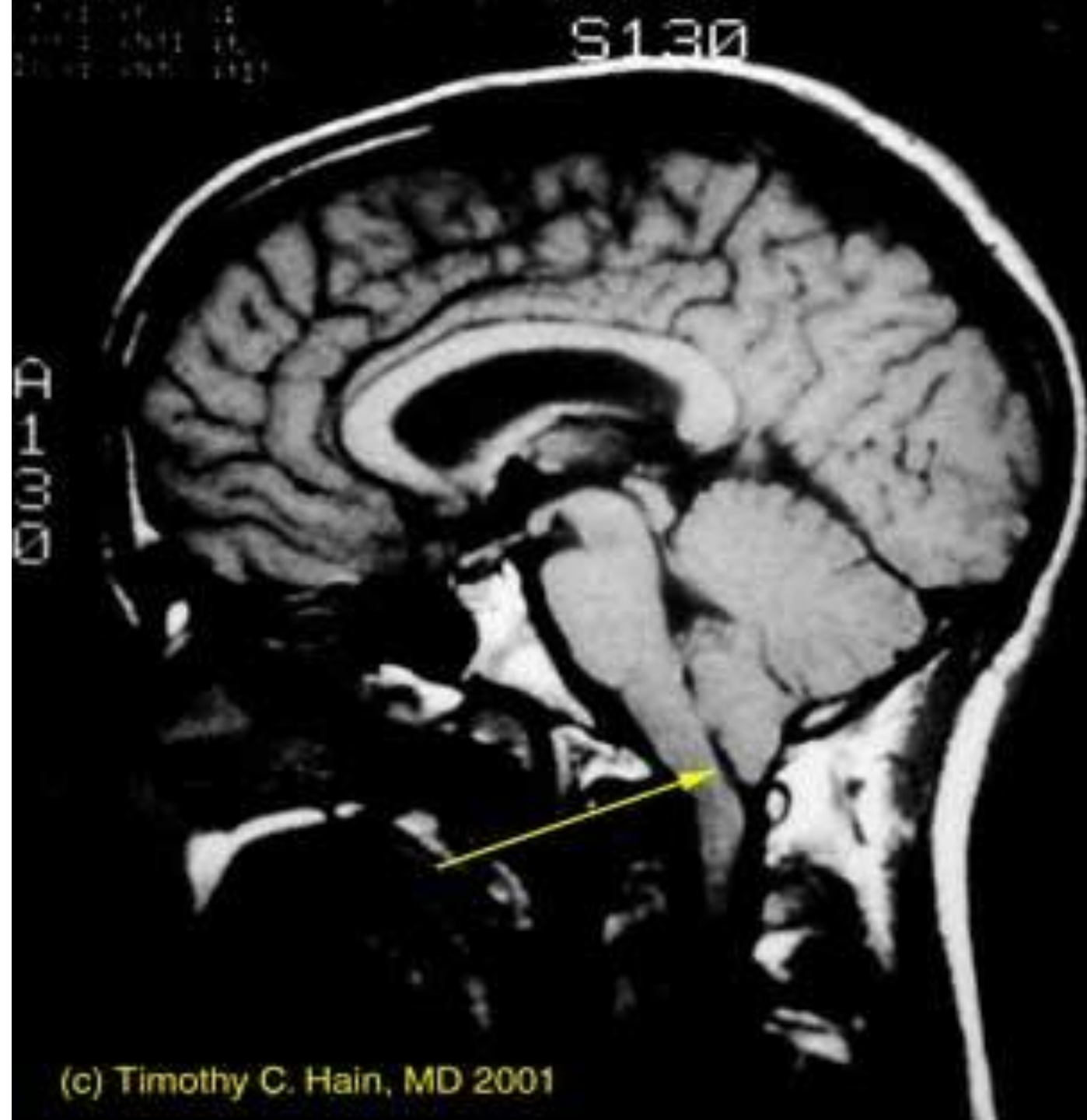
Lateral medullary syndrome (wallenberg syndrome)





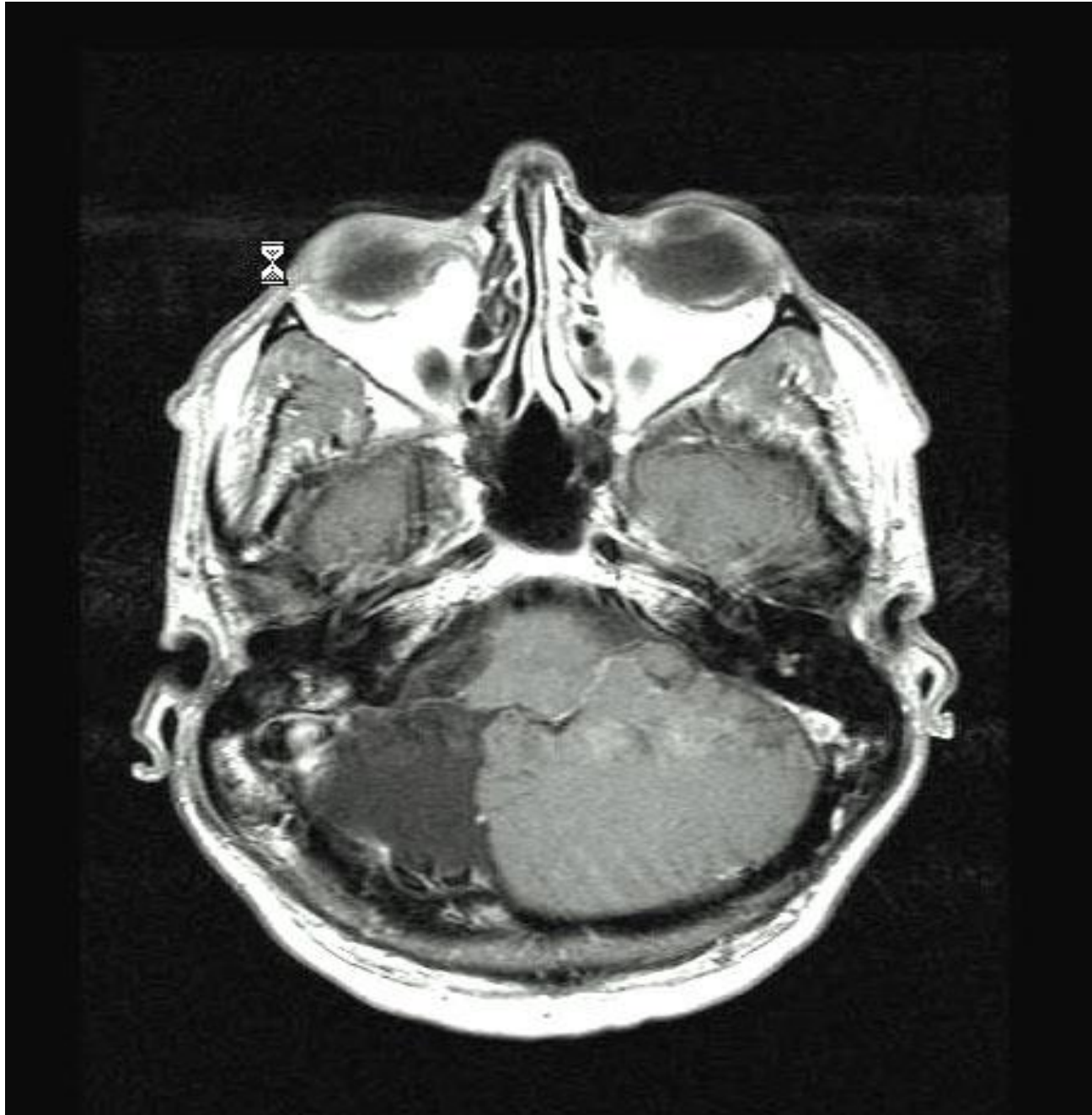
ناهنجاری آرنولد کیاری



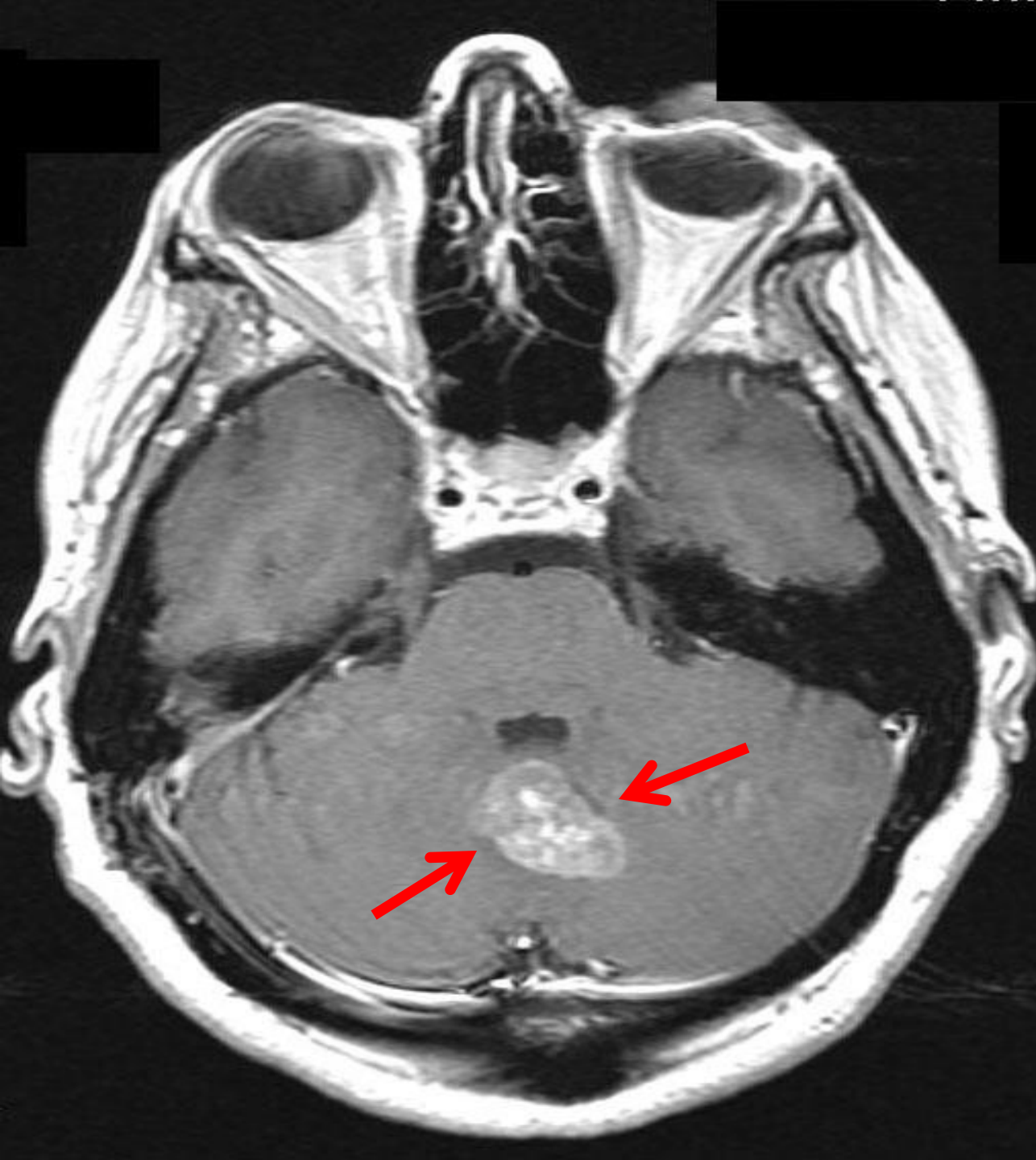


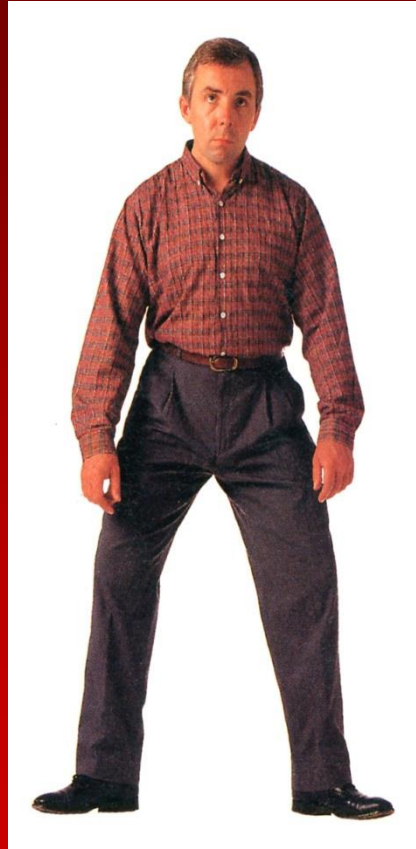
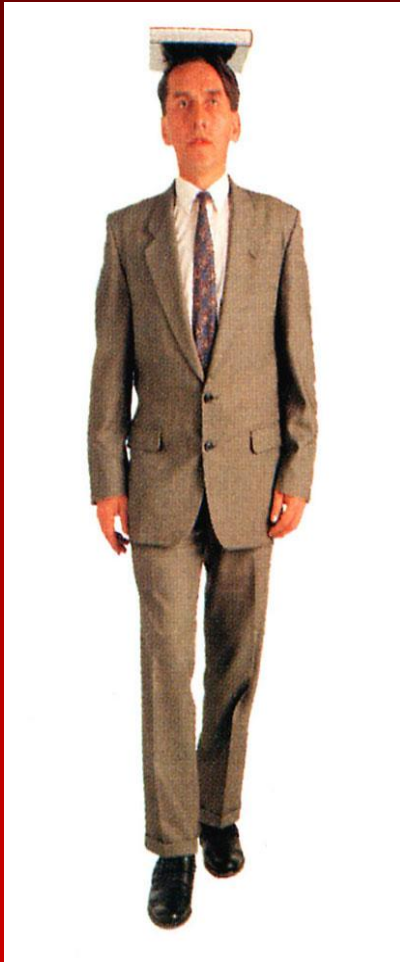
(c) Timothy C. Hain, MD 2001

absent-cerebellar-hemispher



Cerebellar Tumor





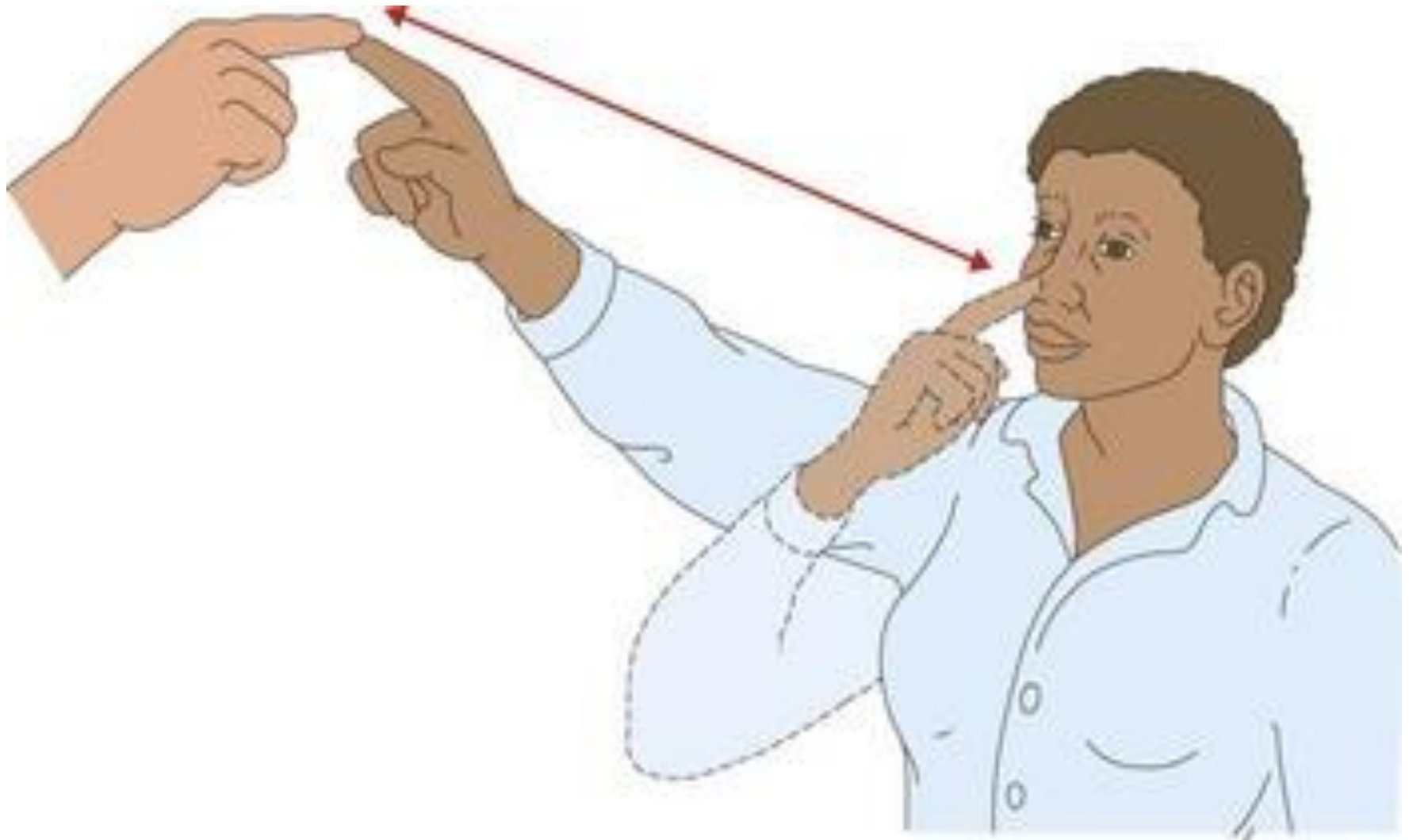
Coordination
Gait
Ataxia
Tremor in action



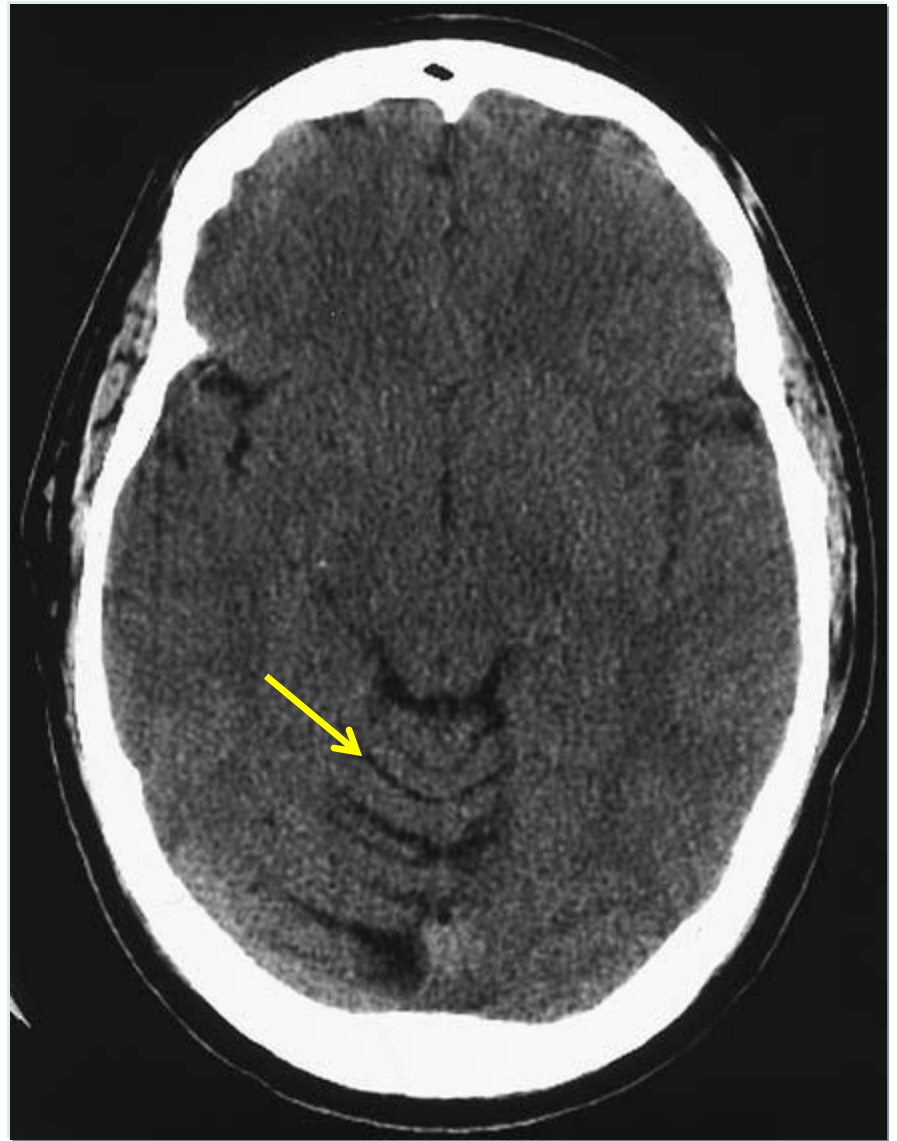
A man in a white lab coat and a woman are standing against a blue background. The man is on the right, wearing a white lab coat over a blue shirt and a patterned tie. He has a stethoscope around his neck. The woman is on the left, wearing a dark grey long-sleeved top. They are both looking at each other. The text "COORDINATION & GAIT" is overlaid in large, bold, white letters with a black outline. Below it, "Rapid Alternating Movements" is written in a smaller, white font with a black outline. The text is positioned in the lower half of the image, overlapping the woman's torso and the man's legs.

COORDINATION & GAIT
Rapid Alternating
Movements

Finger-nose test



CT scan in alcoholic cerebellar degeneration



a



b



c



d



Cerebellar Ataxia

الهی

پرسش هایی هست که جز تو کسی قادر به پاسخ دادنش نیست
درهایی هست که جز تو کسی آنرا نمی گشاید
قصد هایی هست که جز به توفیق تو میسر نمی شود

الهی

تلاش هایی هست که جز به مدد تو ثمر نمی بخشد
تغییراتی هست که جز به تقدیر تو ممکن نیست
و دعاهایی هست که جز به آمین تو اجابت نمی شود

الهی

قدم های گمشده ایی دارم که تنها هدایتگرش تویی
و به آزمون هایی دچارم که اگر دستم نگیری و مرا به آنها محک بزنی، شرمنده خواهم شد.

الهی

با این همه باکی نیست
زیرا من همچون تویی دارم
تویی که همانندی نداری
رحمتت را هیچ مرزی نیست
ای تو خالق دعا و مالک " آمین "...
صحیفه سجاده