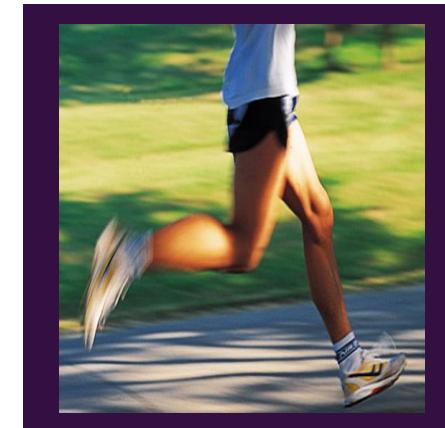




Sistemas motores

Controle Motor



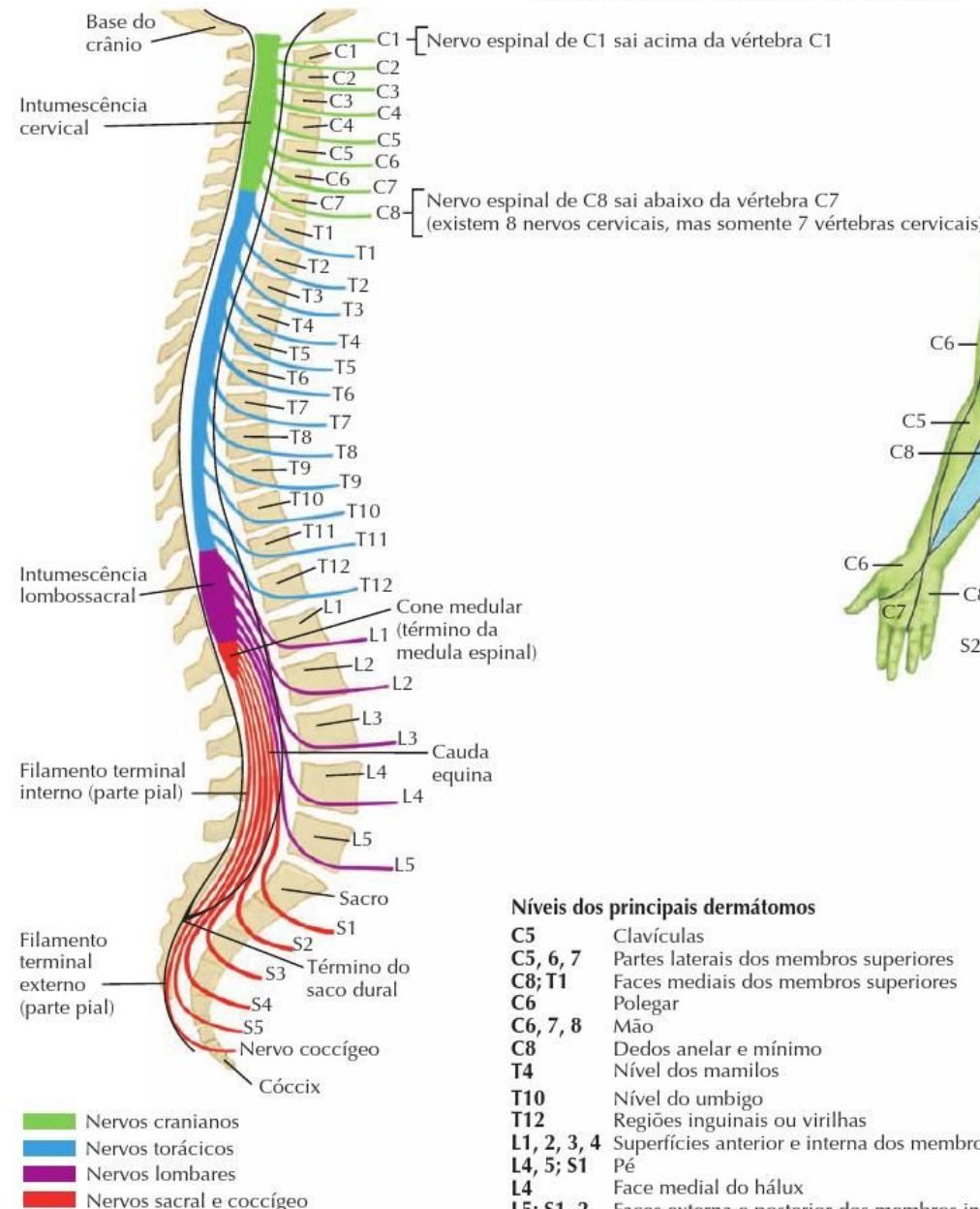
Profa. Michele Schultz



Movimentos voluntários x “involuntários”

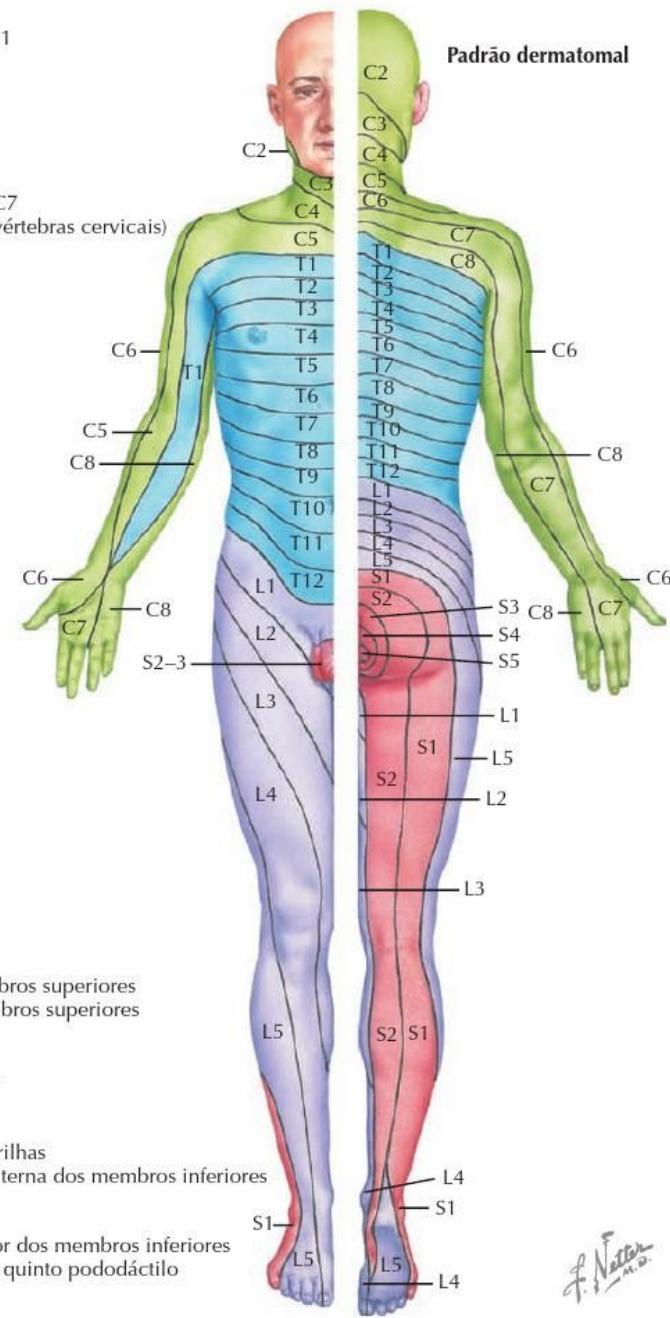
- Controle dos movimentos
- Efetores
- Reflexos e reações posturais

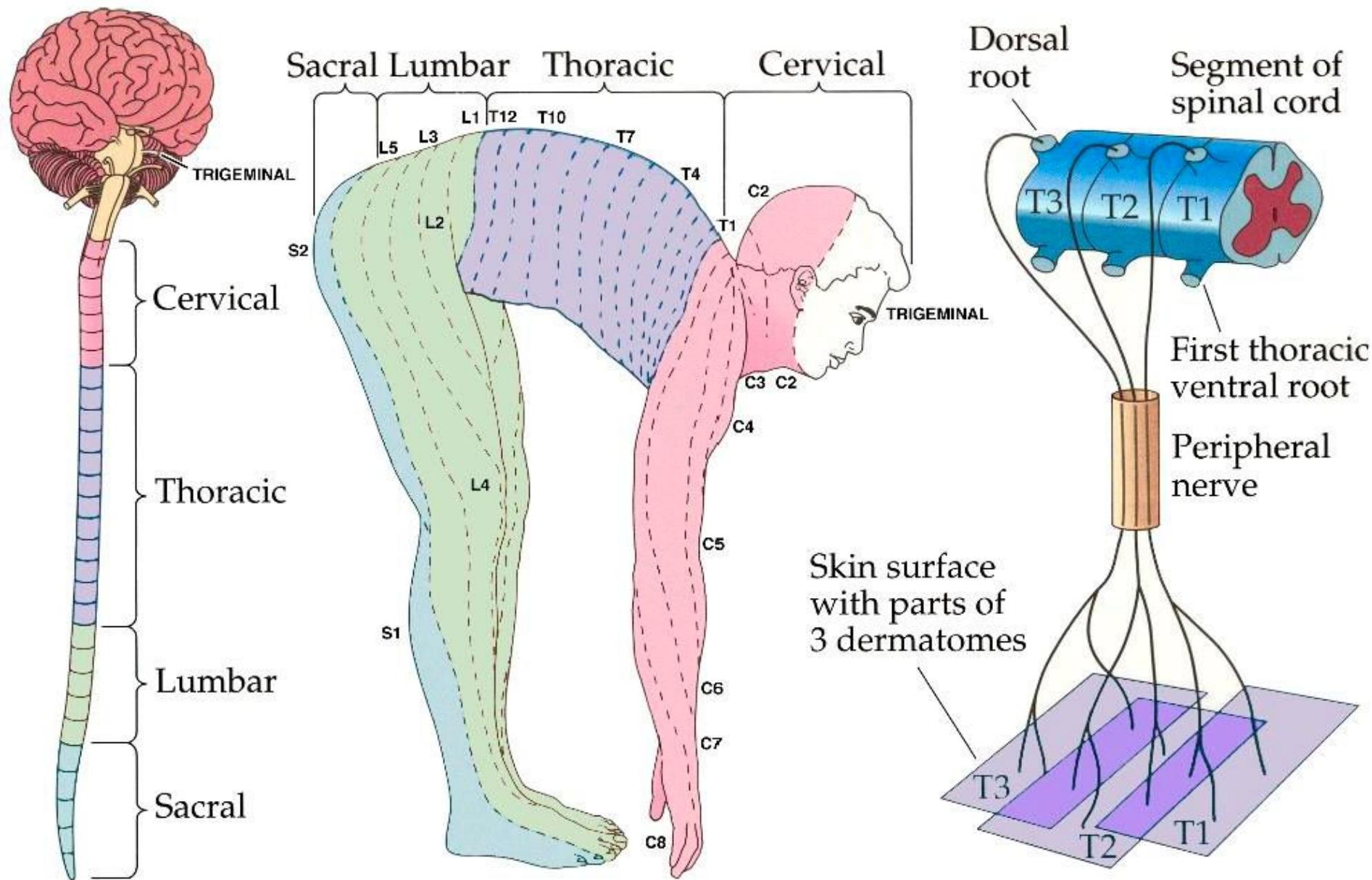
NERVOS ESPINAIS E DERMÁTOMOS SENSITIVOS



Níveis dos principais dermatomas

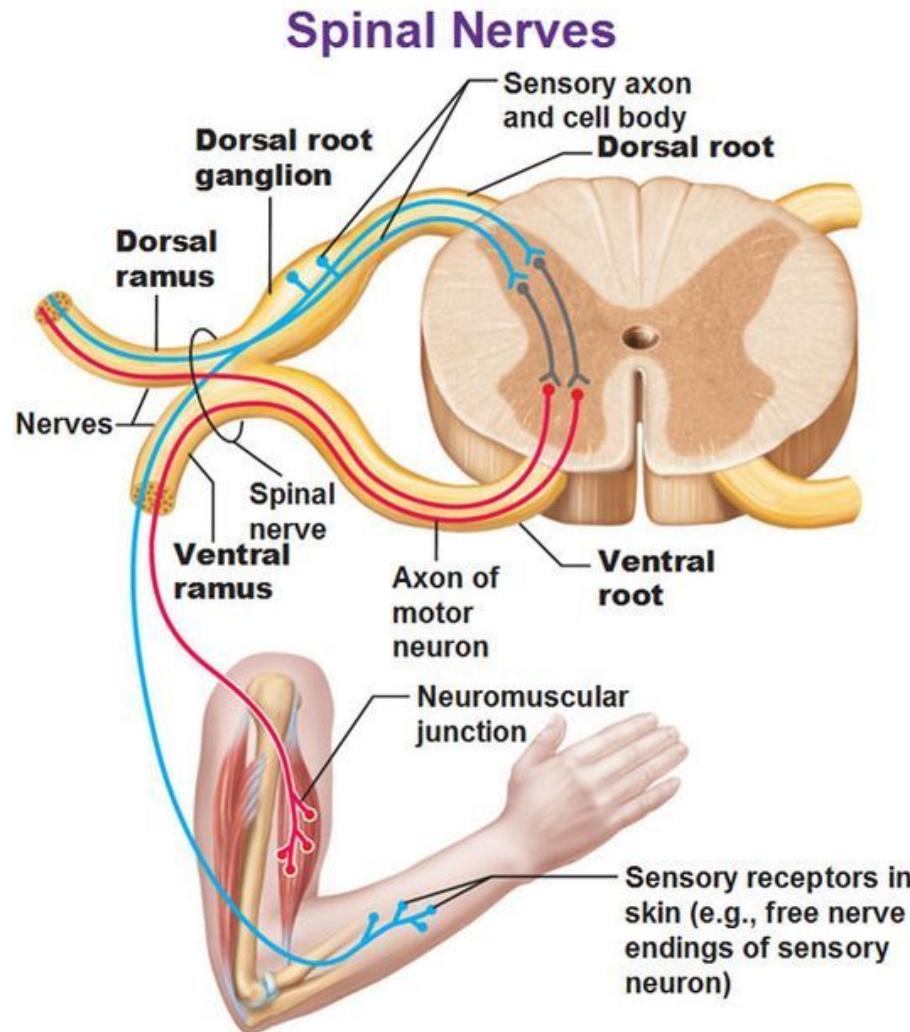
C5	Clavículas
C5, 6, 7	Partes laterais dos membros superiores
C8; T1	Faces mediais dos membros superiores
C6	Polegar
C6, 7, 8	Mão
C8	Dedos anelar e mínimo
T4	Nível dos mamilos
T10	Nível do umbigo
T12	Regiões inguinais ou virilhas
L1, 2, 3, 4	Superfícies anterior e interna dos membros inferiores
L4, 5; S1	Pé
L4	Face medial do hálux
L5; S1, 2	Faces externa e posterior dos membros inferiores
S1	Margem lateral do pé e quinto pododáctilo
S2, 3, 4	Períneo





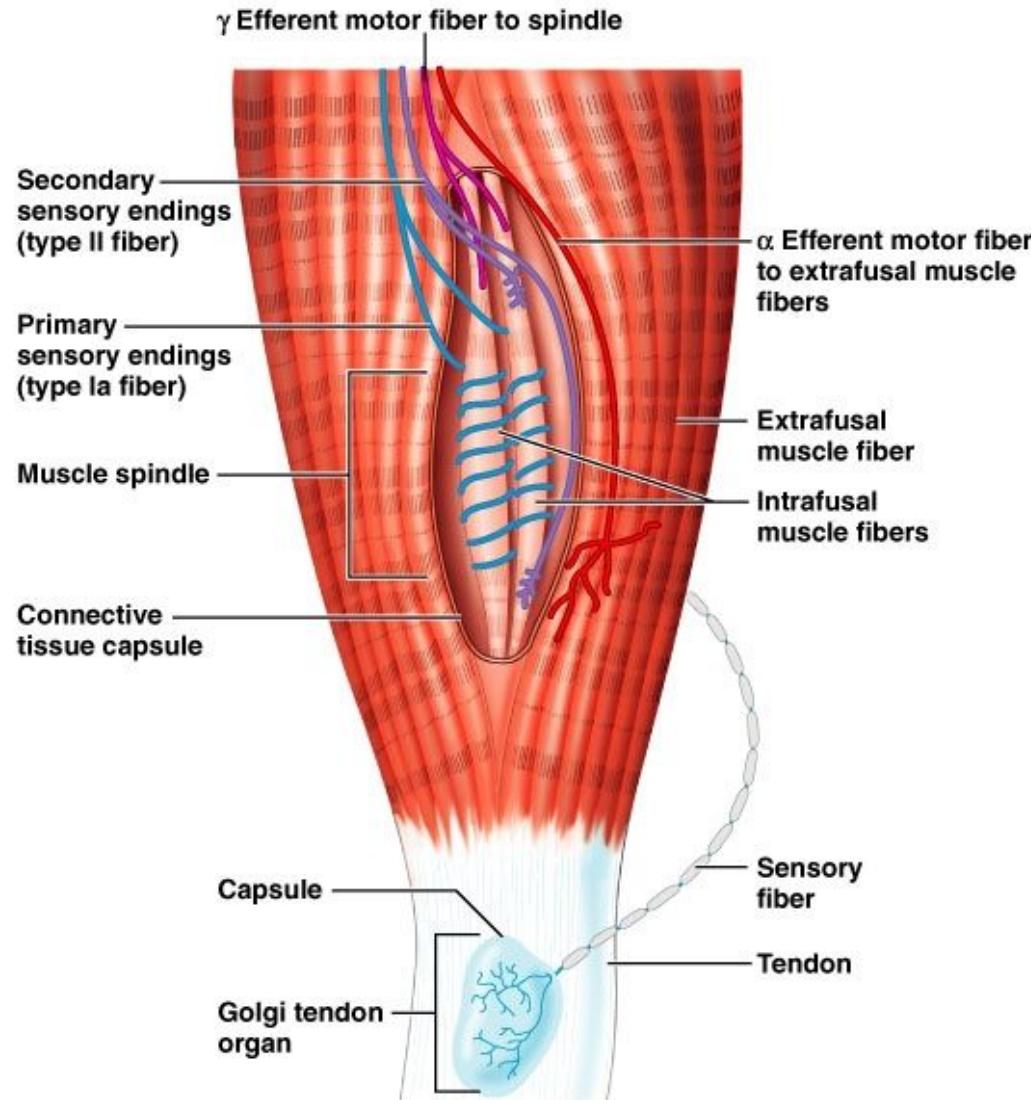


Nervos espinhais

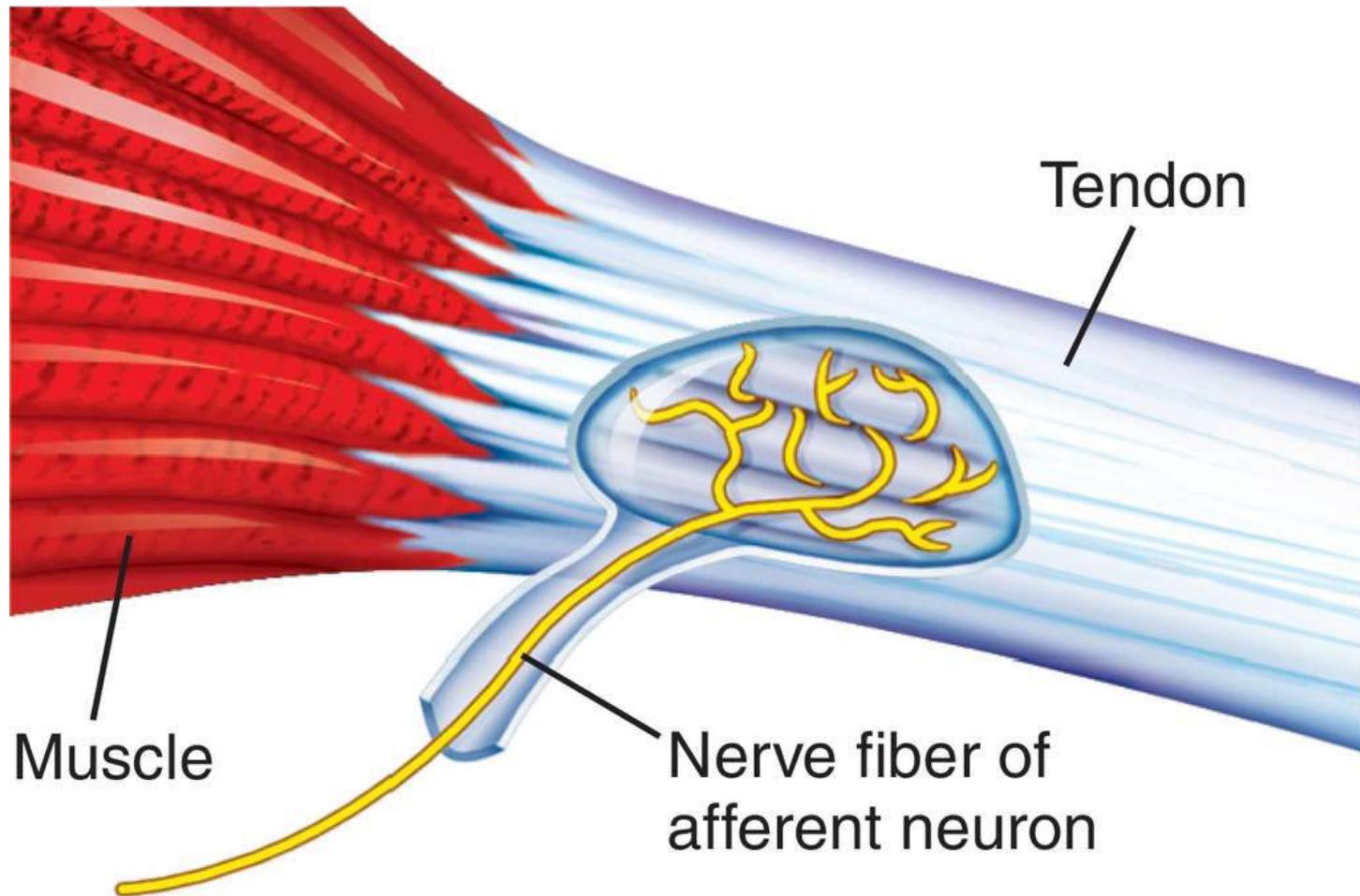




Propriocepção – fusos musculares



+ Propriocepção - ONT



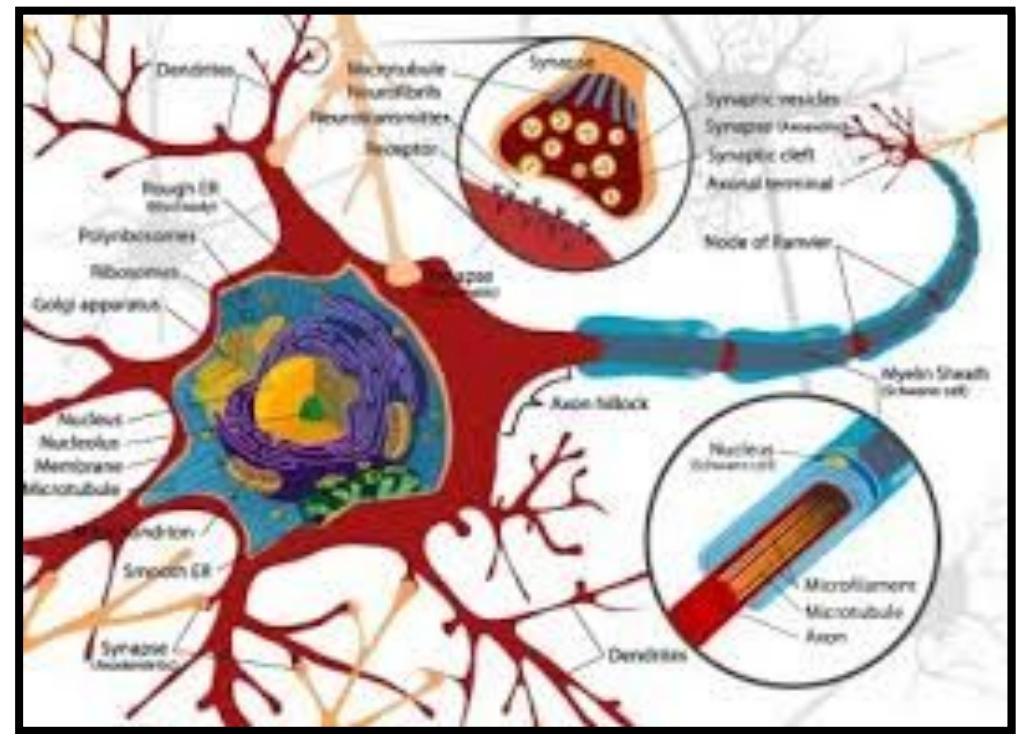


Componentes das vias de controle

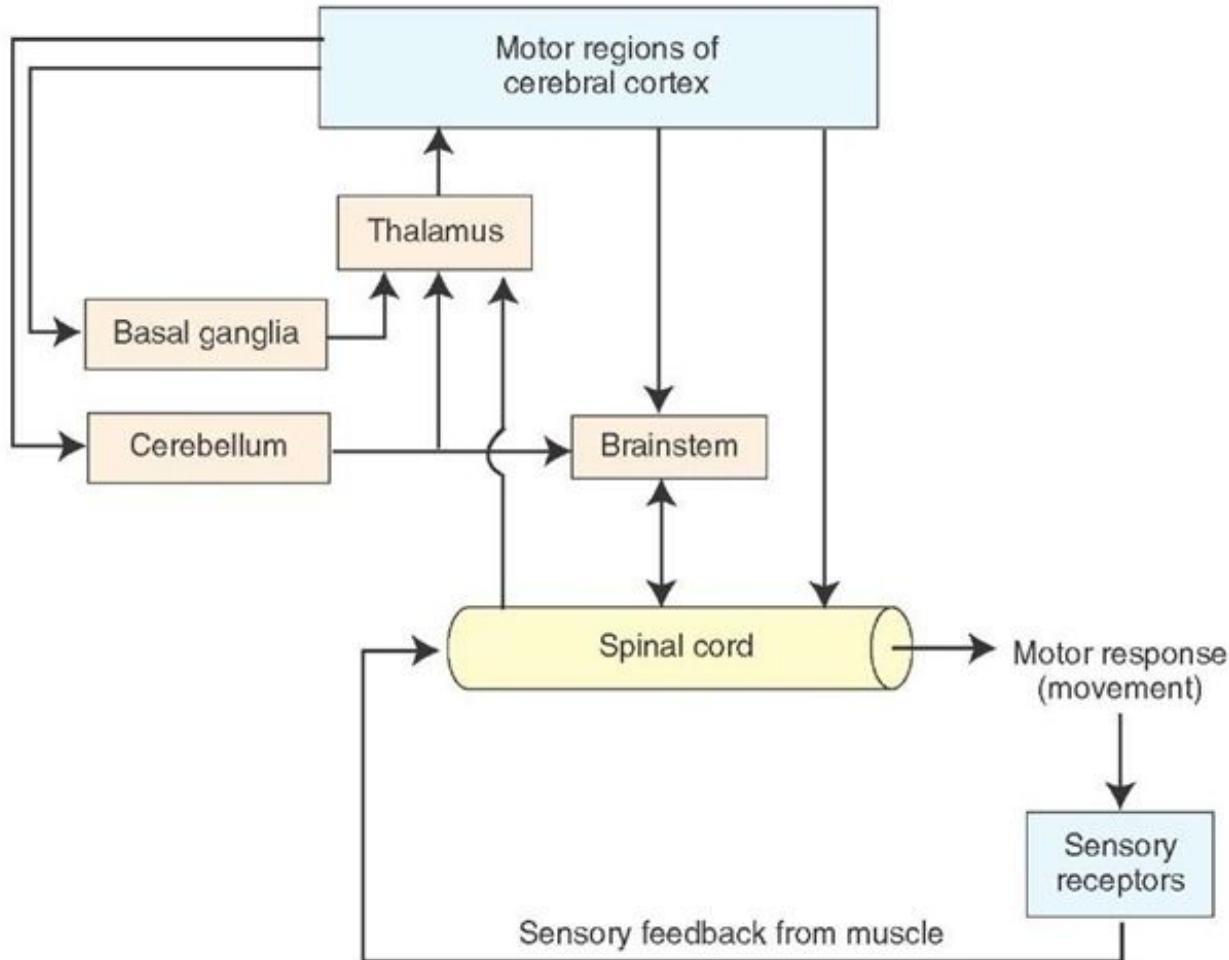
■ Ascendentes

■ Descendentes

■ Mecanismos



Centros de controle





Vias ascendentes/aferentes

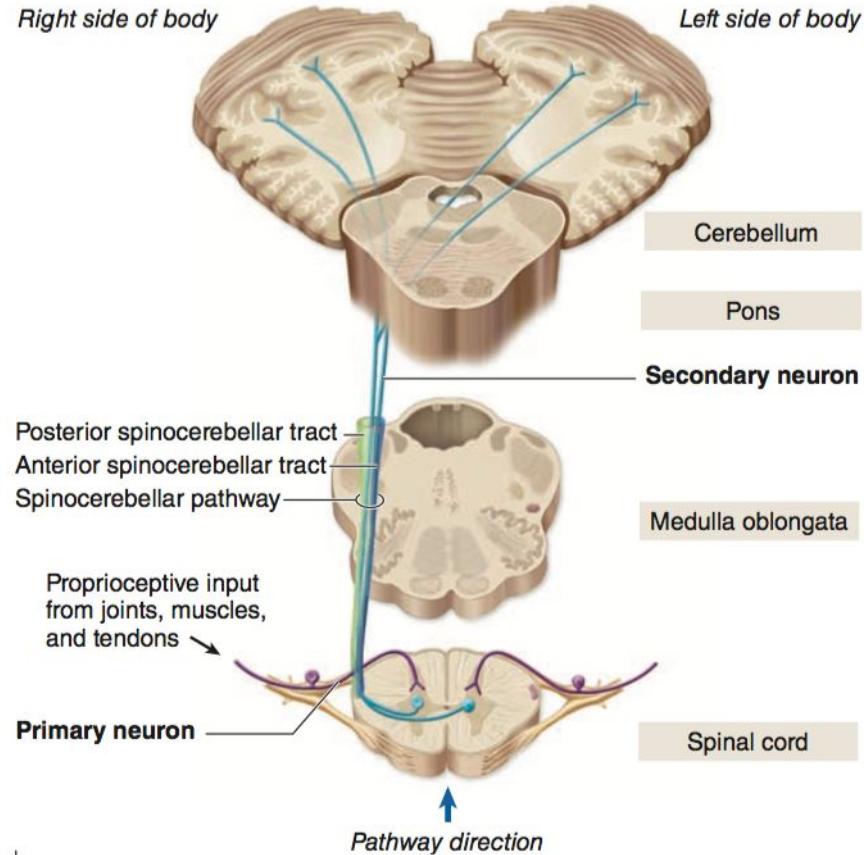
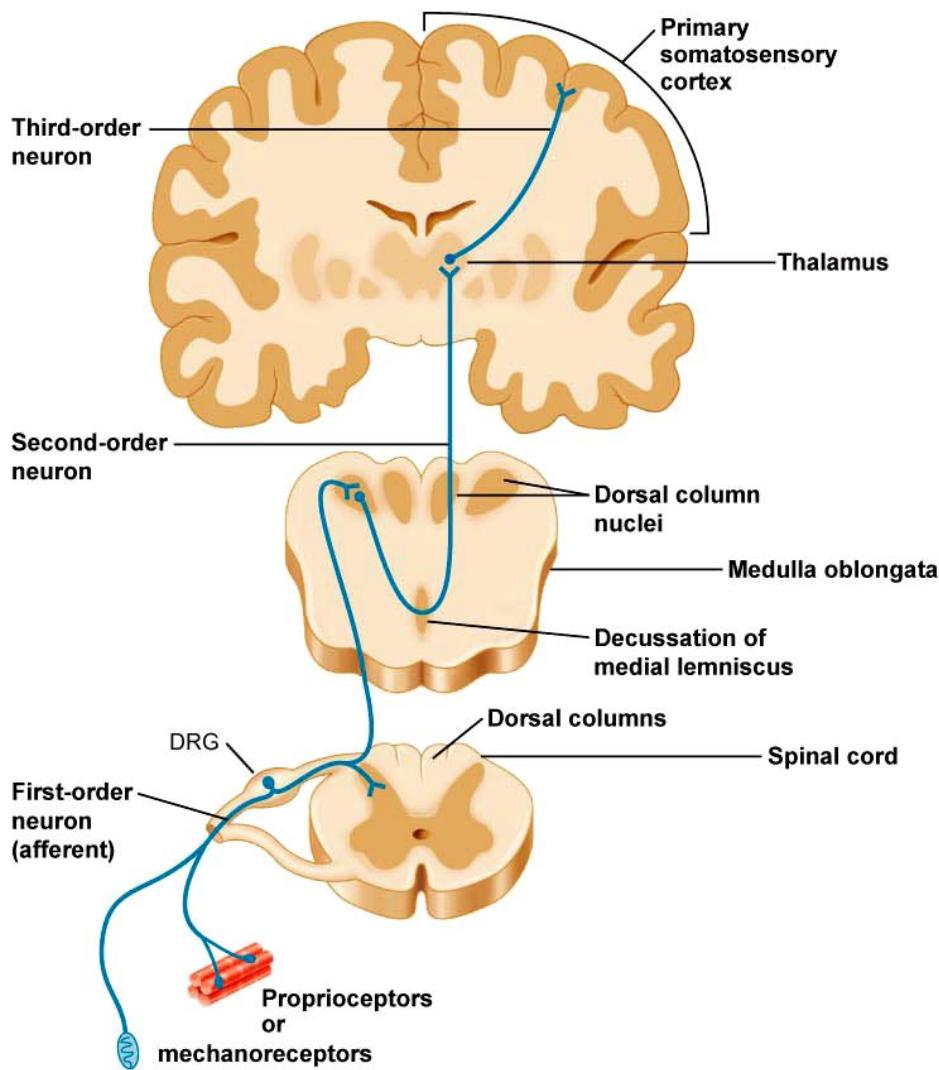
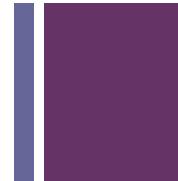
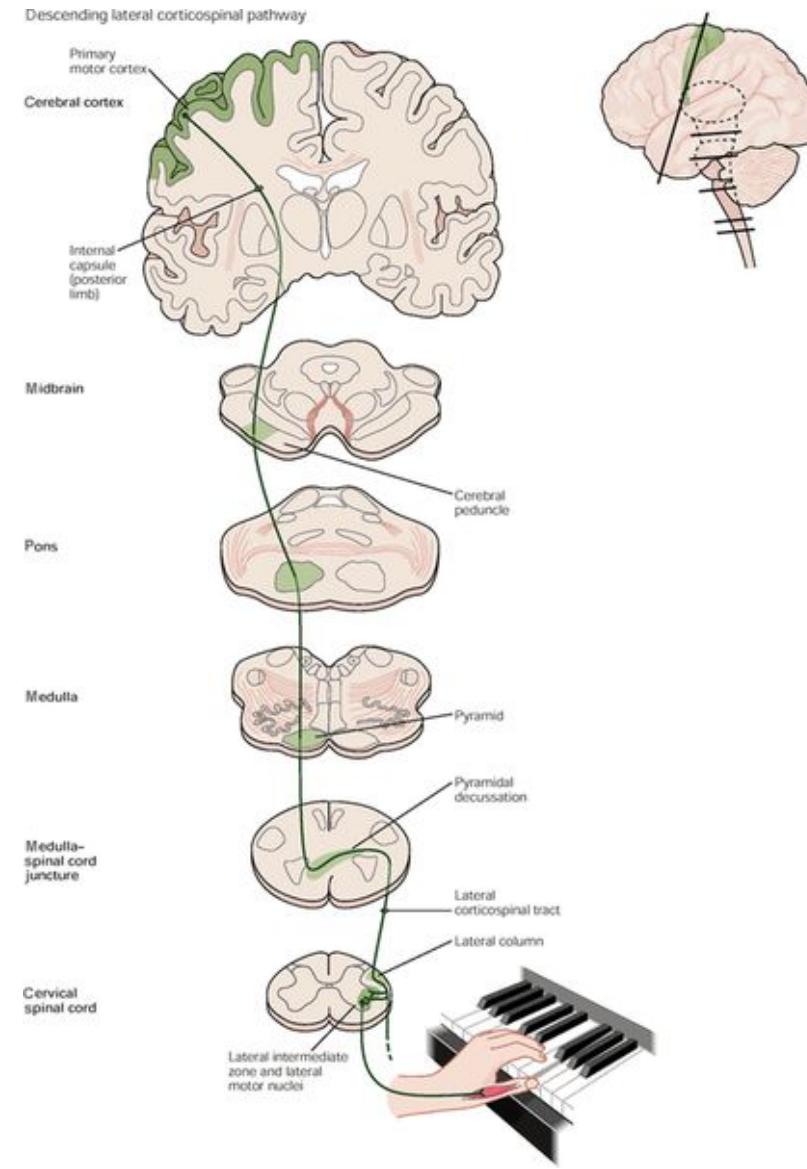
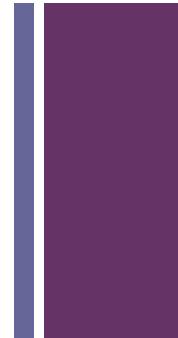


Figure 17.4

Spinocerebellar Pathway. This pathway conducts proprioceptive information to the cerebellum through both the anterior and posterior spinocerebellar tracts. Only some of the axons destined to enter the anterior spinocerebellar pathway decussate at the level where the primary neuron axon enters the spinal cord. Only primary (purple) and secondary (dark blue) neurons occur in this type of pathway.

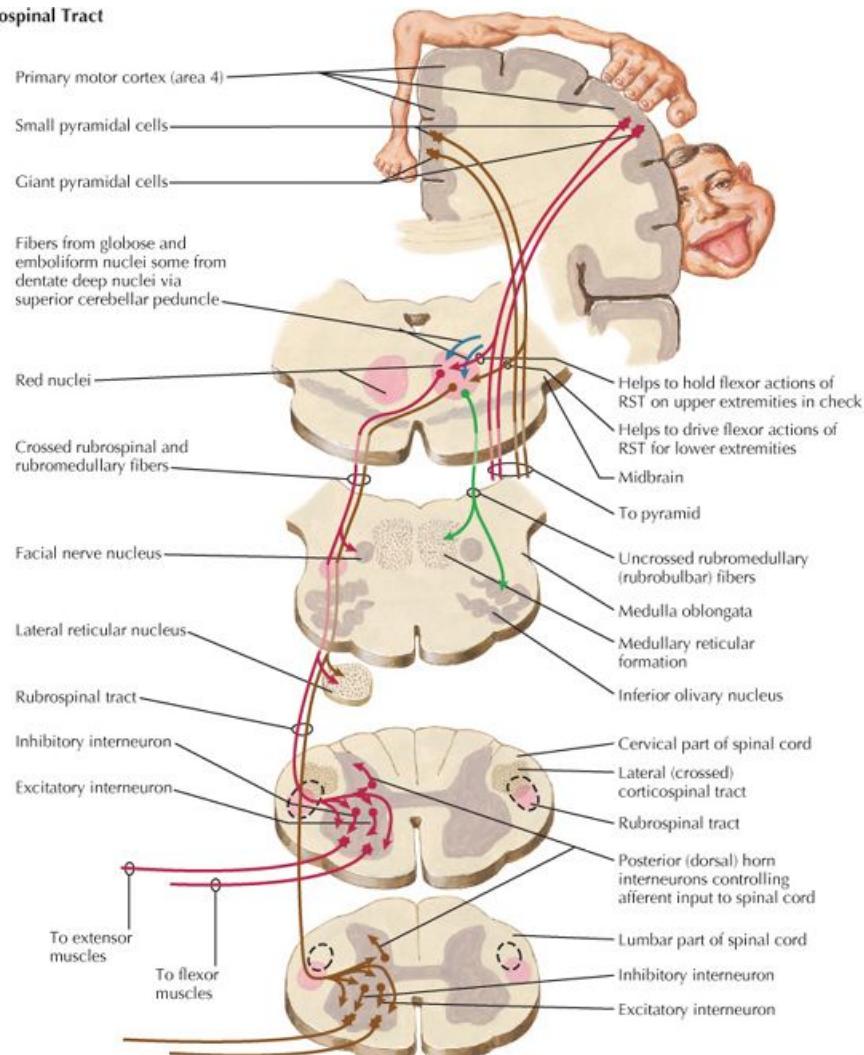


Vias descendentes/eferentes

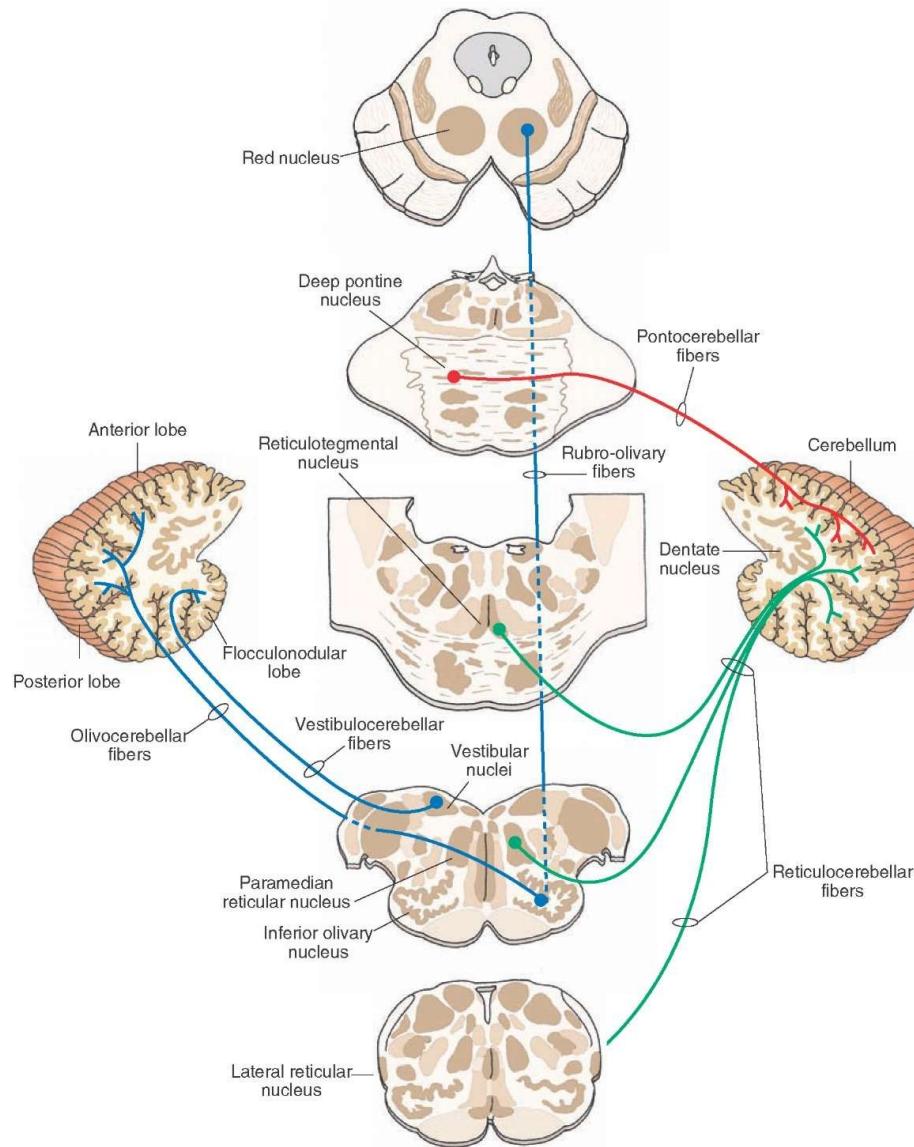


Vias descendentes

Rubrospinal Tract

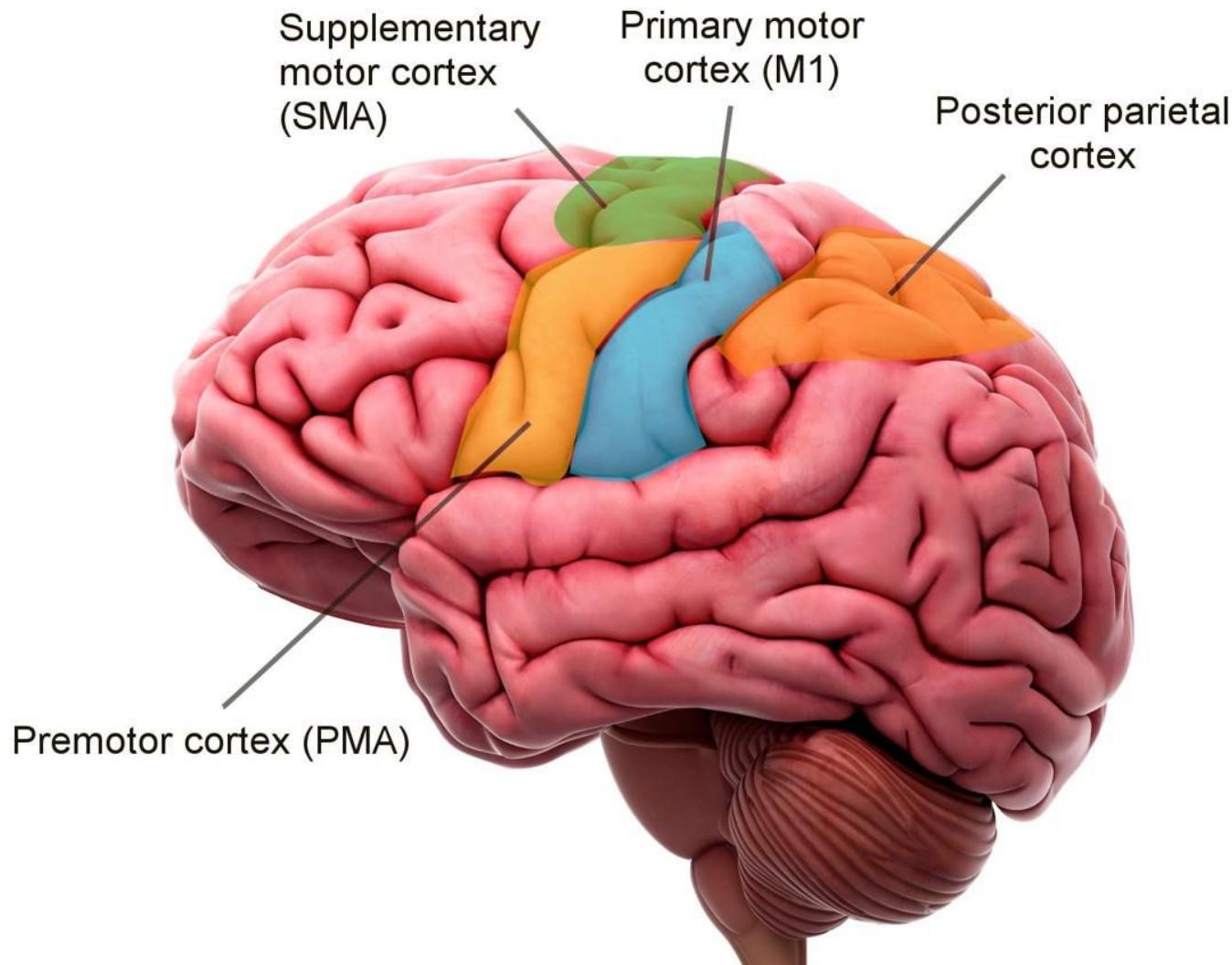


+ Vias descendentes





Córtex motor

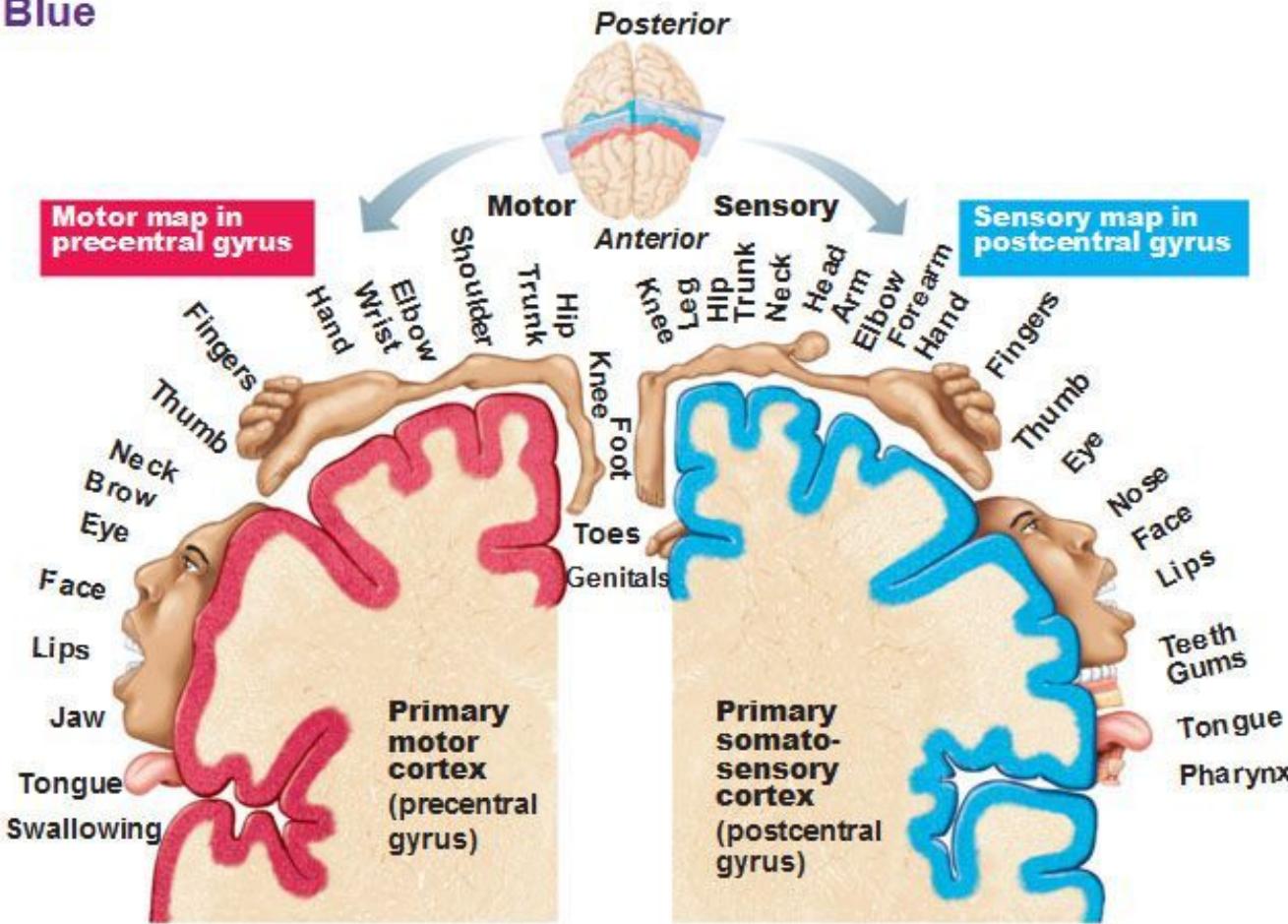




Somatotopia

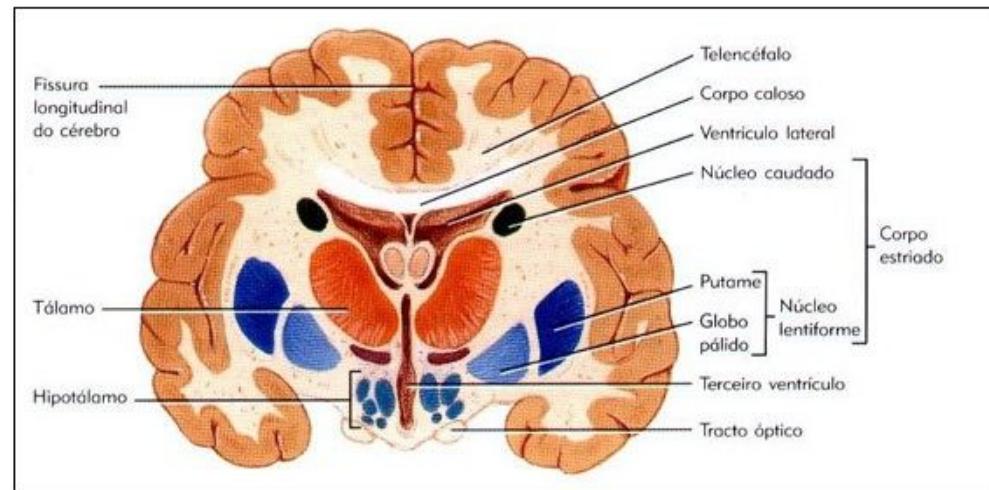
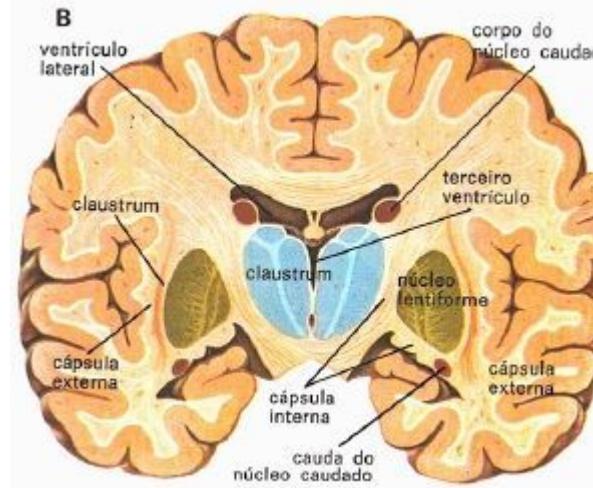
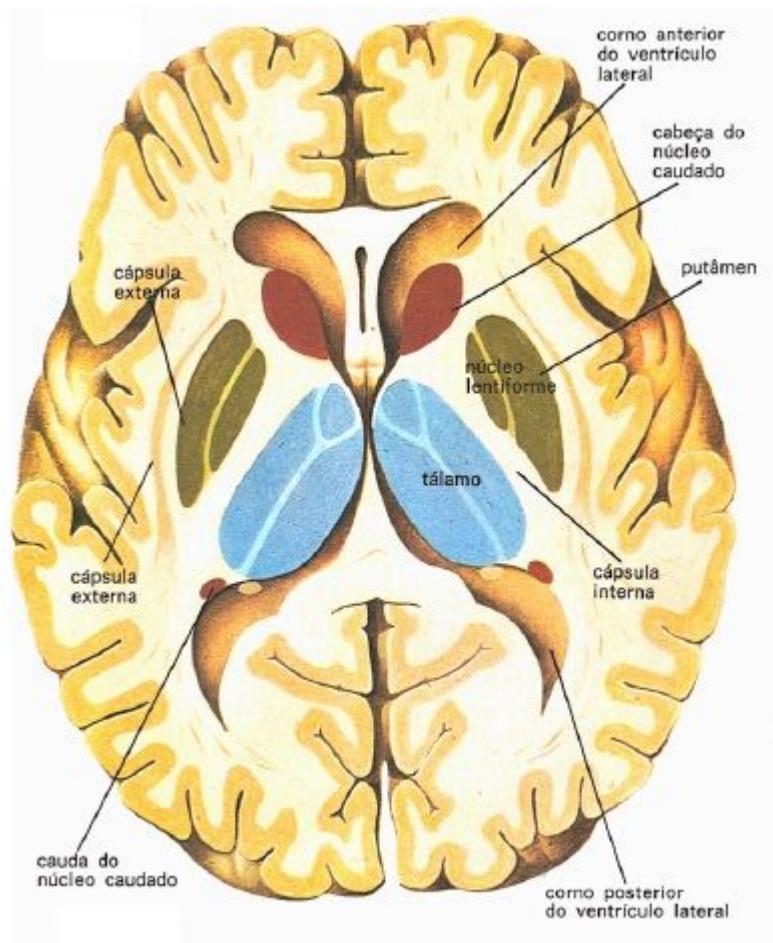
**Homunculus of
Primary
Somatosensory Cortex
in Blue**

Note that each hemisphere receives info from the opposite side of the body



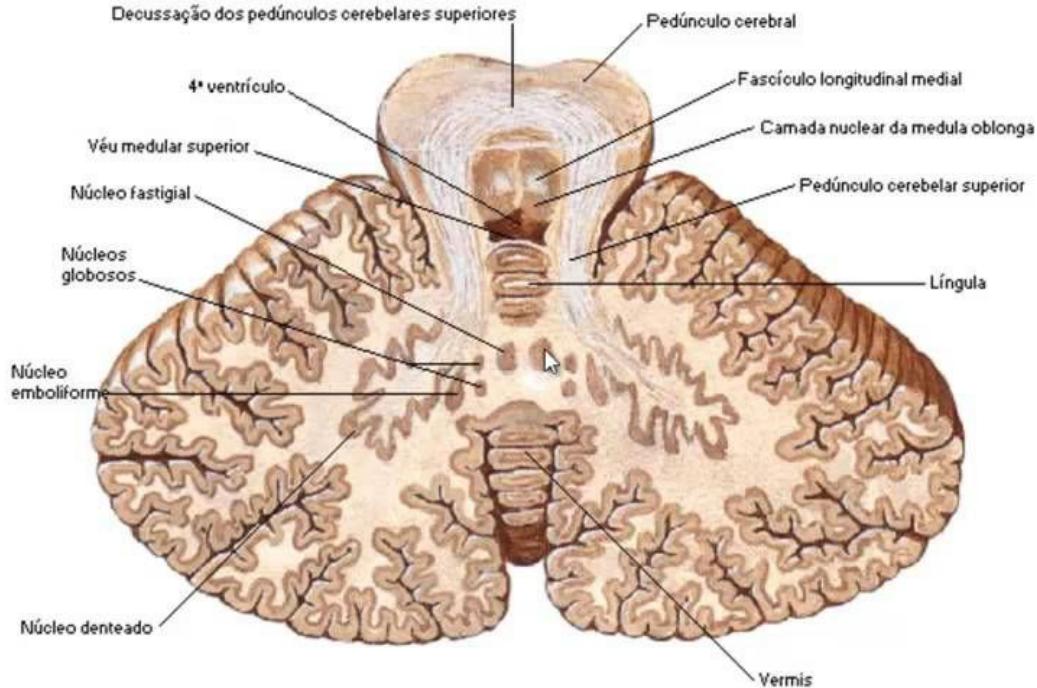


Núcleos da Base





Cerebelo





Lesões

- <https://www.youtube.com/watch?v=Dp-K5ocQVbI>
- <https://www.youtube.com/watch?v=C4JmBRKs7C4>
- https://www.youtube.com/watch?v=lF5j7zvB_jU
- <https://www.youtube.com/watch?v=Ead9MjFxLBM>



Discutam em grupos

- Considerando os mecanismos e estruturas estudados até aqui, discutam quais as possíveis alterações que levam às disfunções que assistiram.
- Tentem representar através de um mapa conceitual os componentes do sistema motor. Considere aspectos morfológicos.