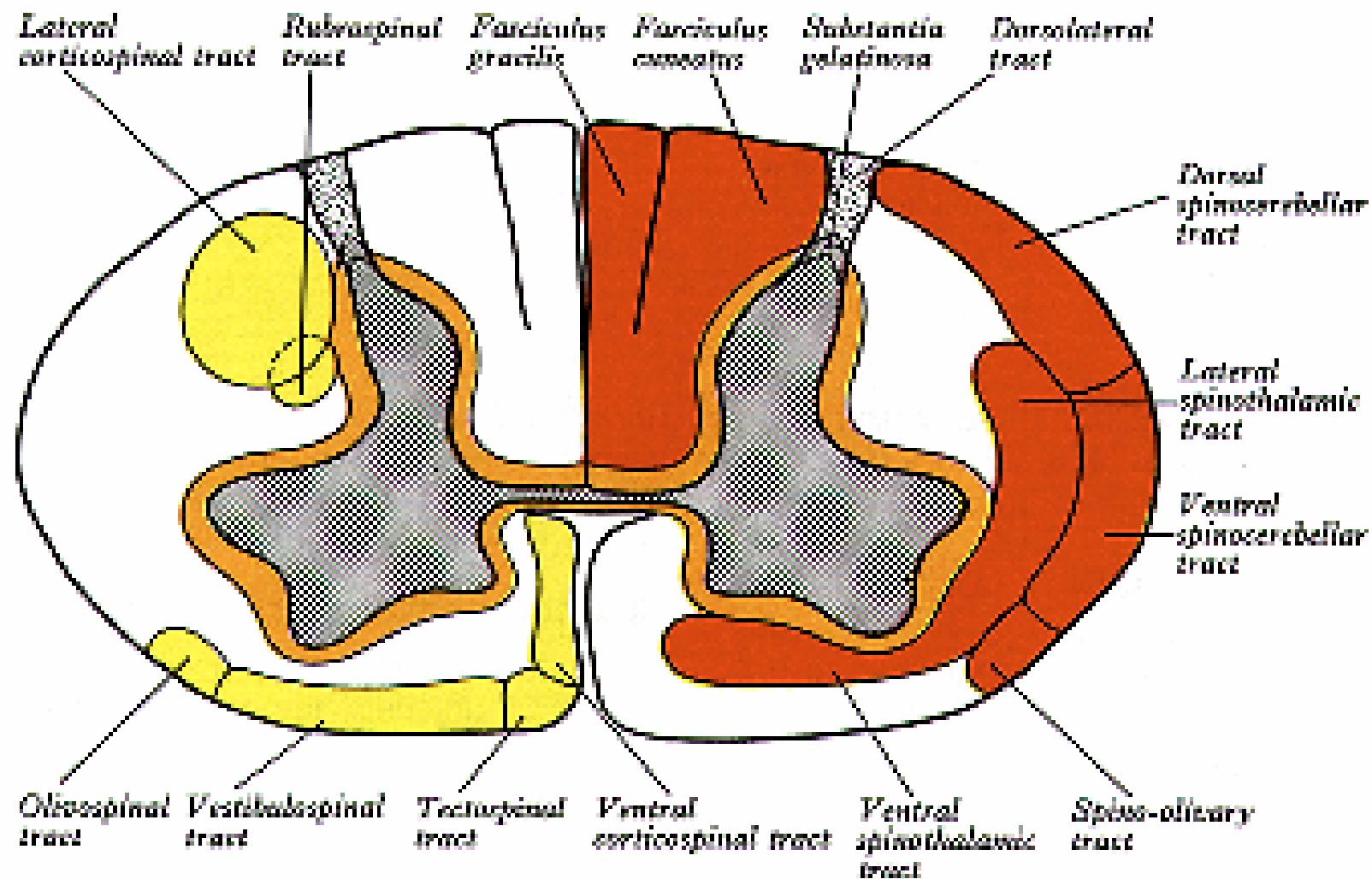
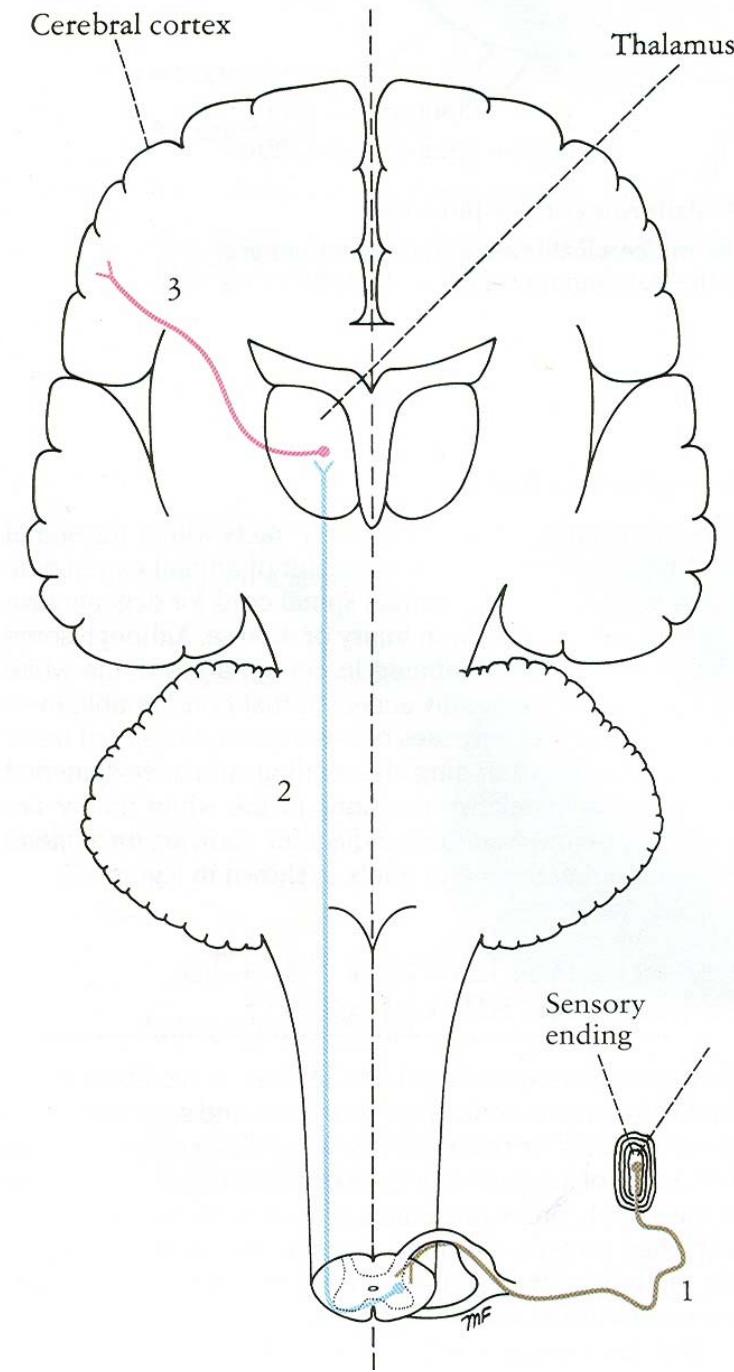


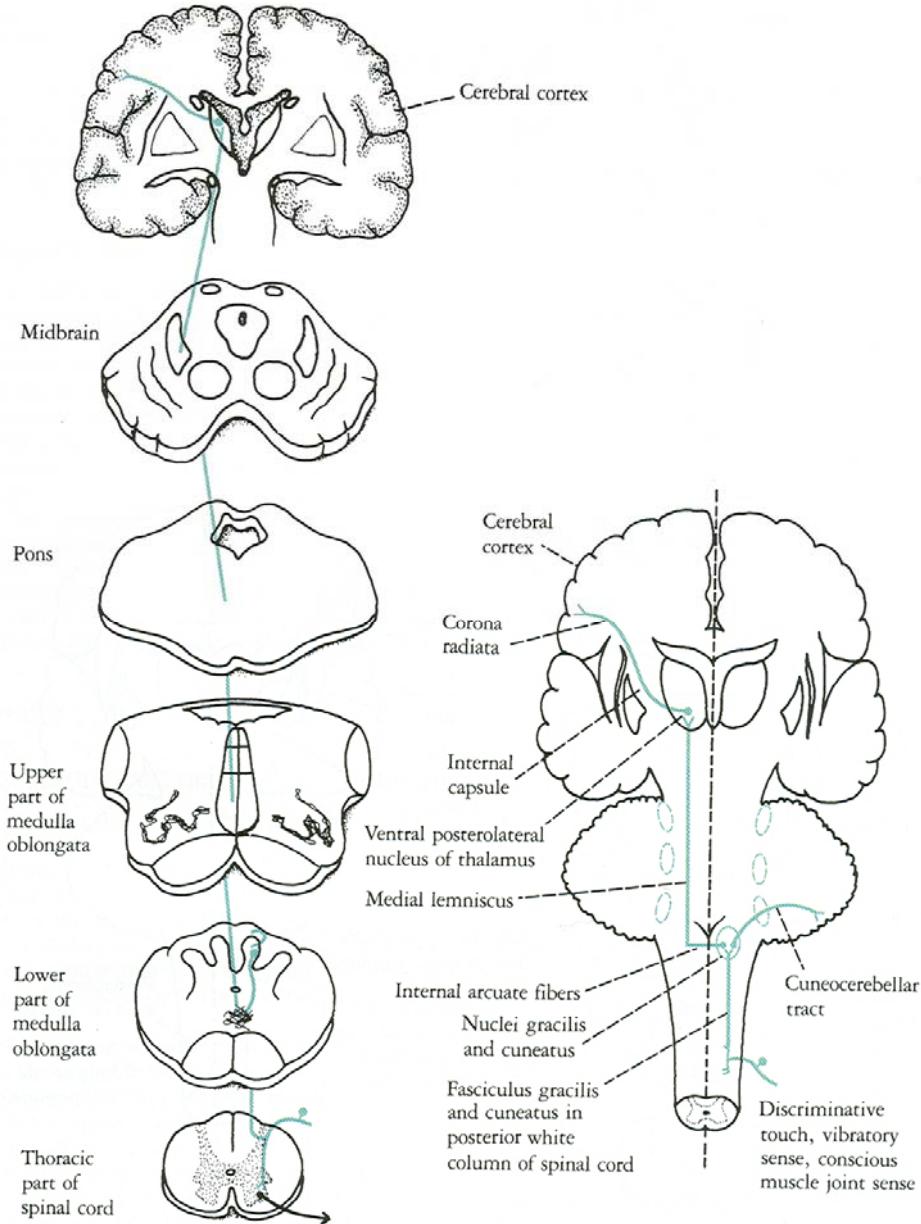
# ASCENDING TRACTS



# Anatomical organisation of ascending sensory pathway

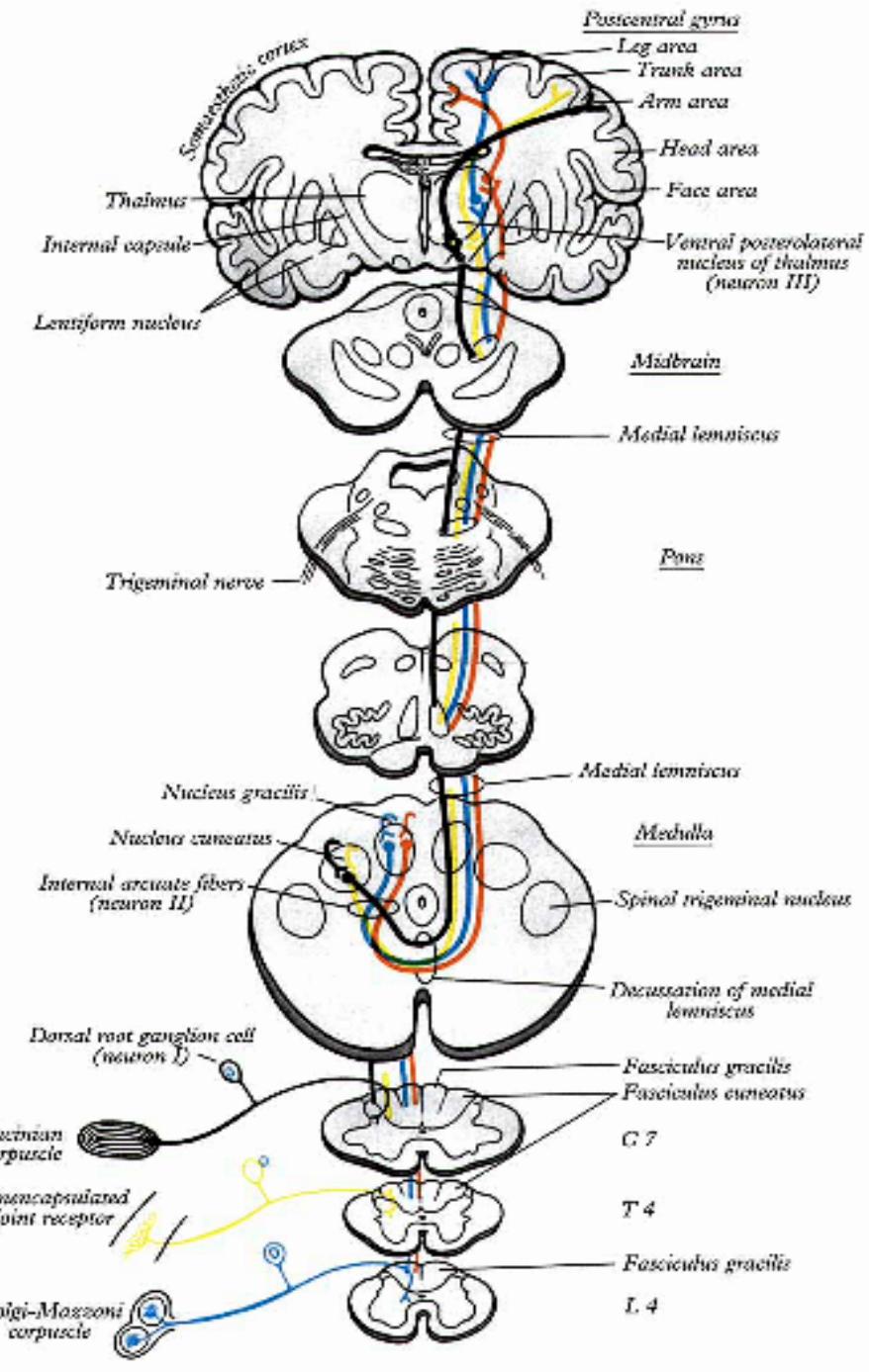


# Posterior column

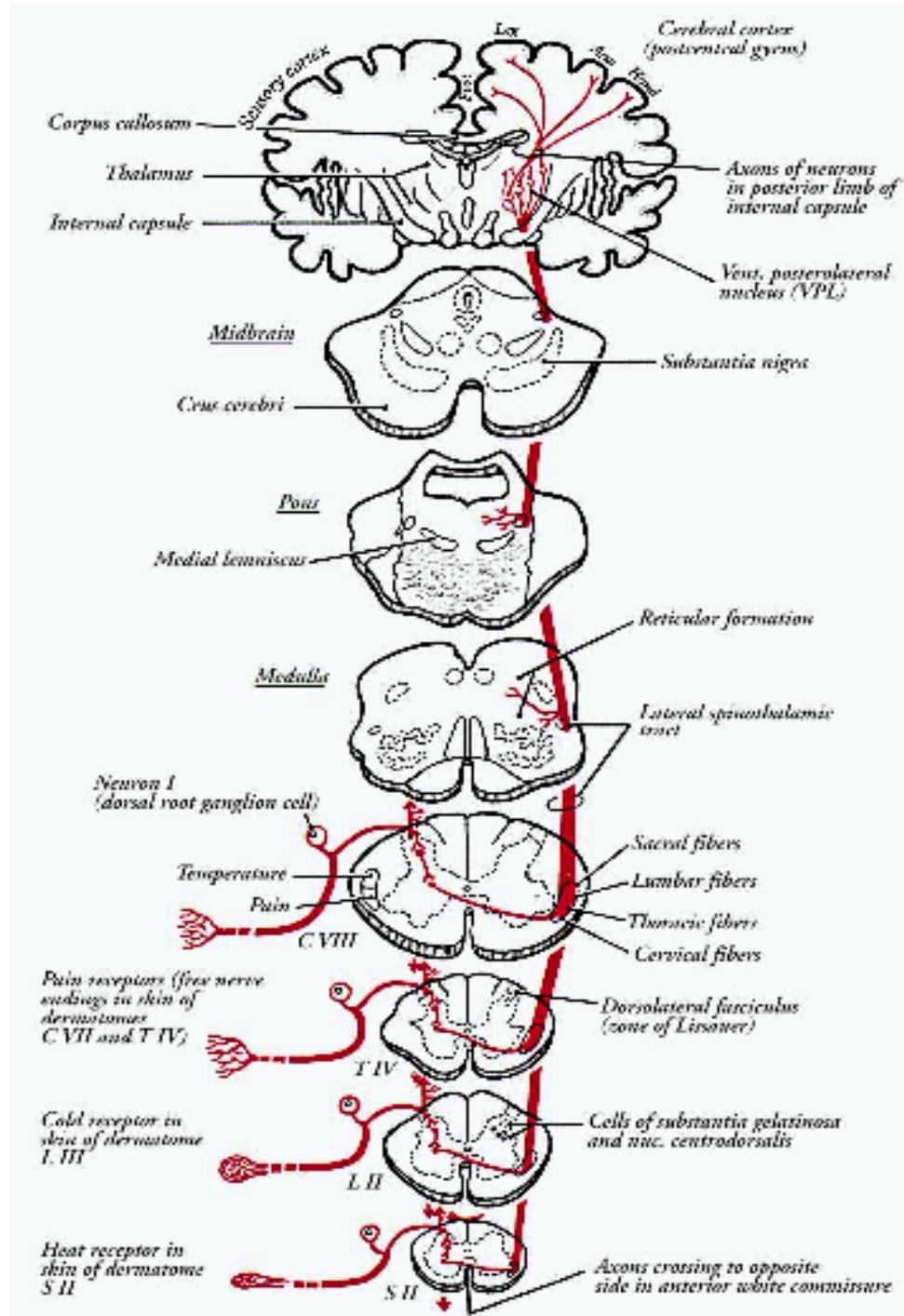


**Figure 4-12** Discriminative touch, vibratory sense, and conscious muscle joint sense pathways.

# Posterior column (medial lemniscus) tracts



# Lateral spinothalamic tract



# Lateral spinothalamic tract

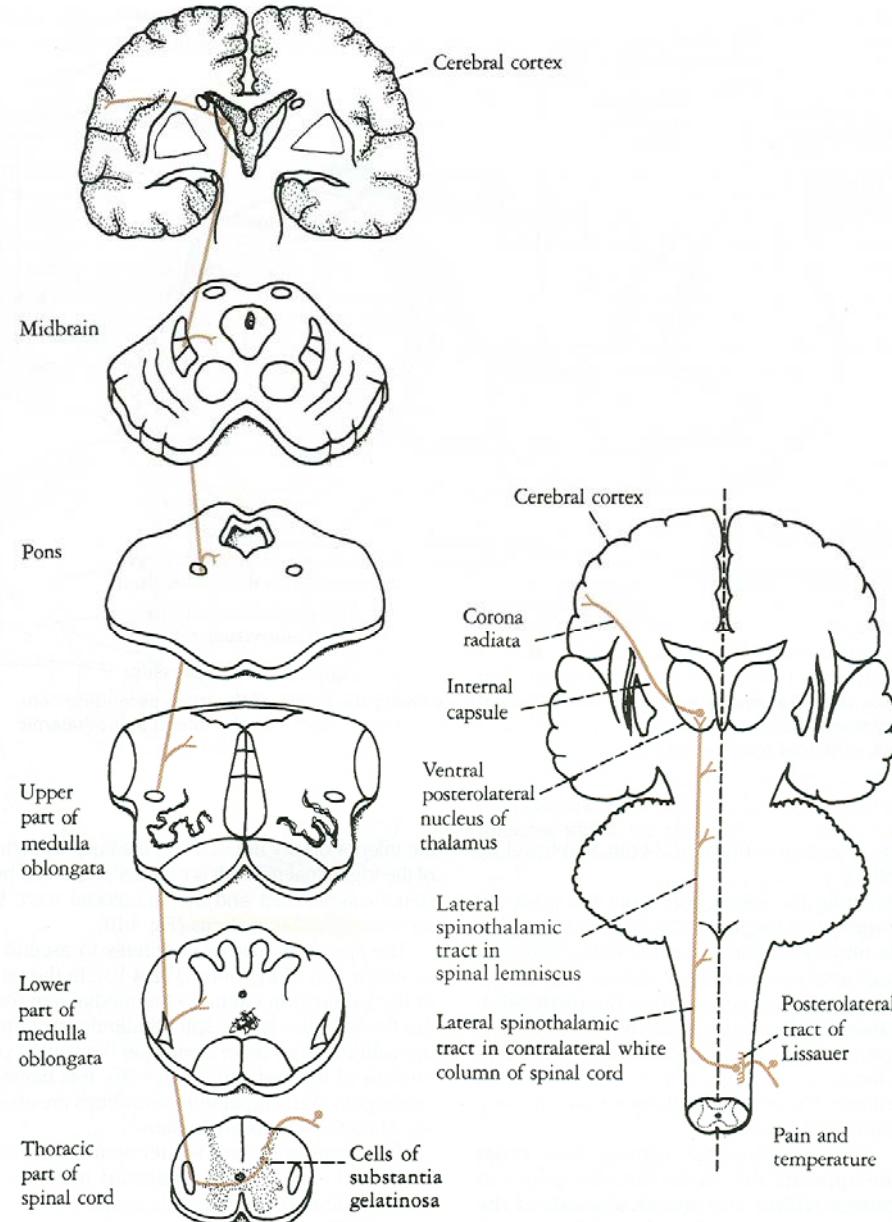


Figure 4–10 Pain and temperature pathways.

# Anterior spinothalamic tract

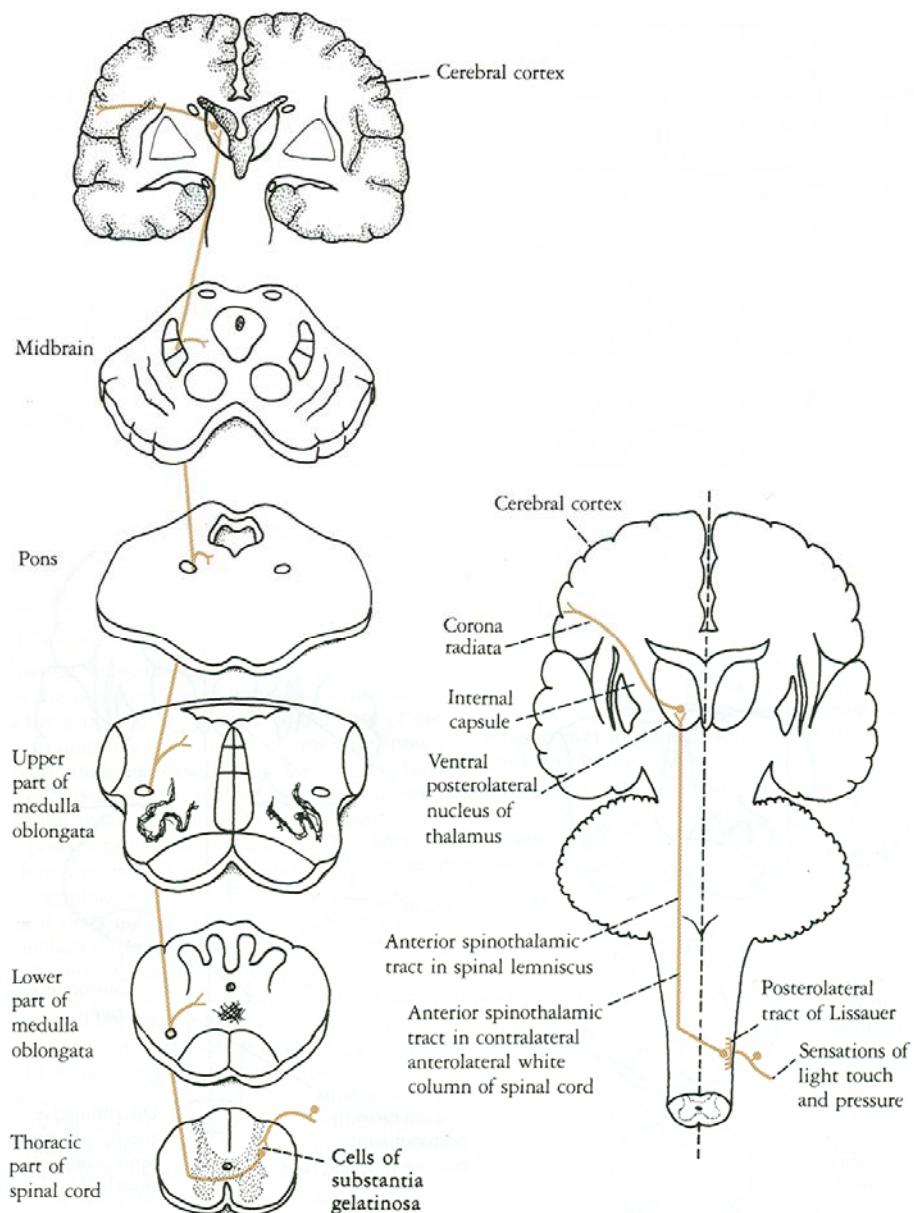
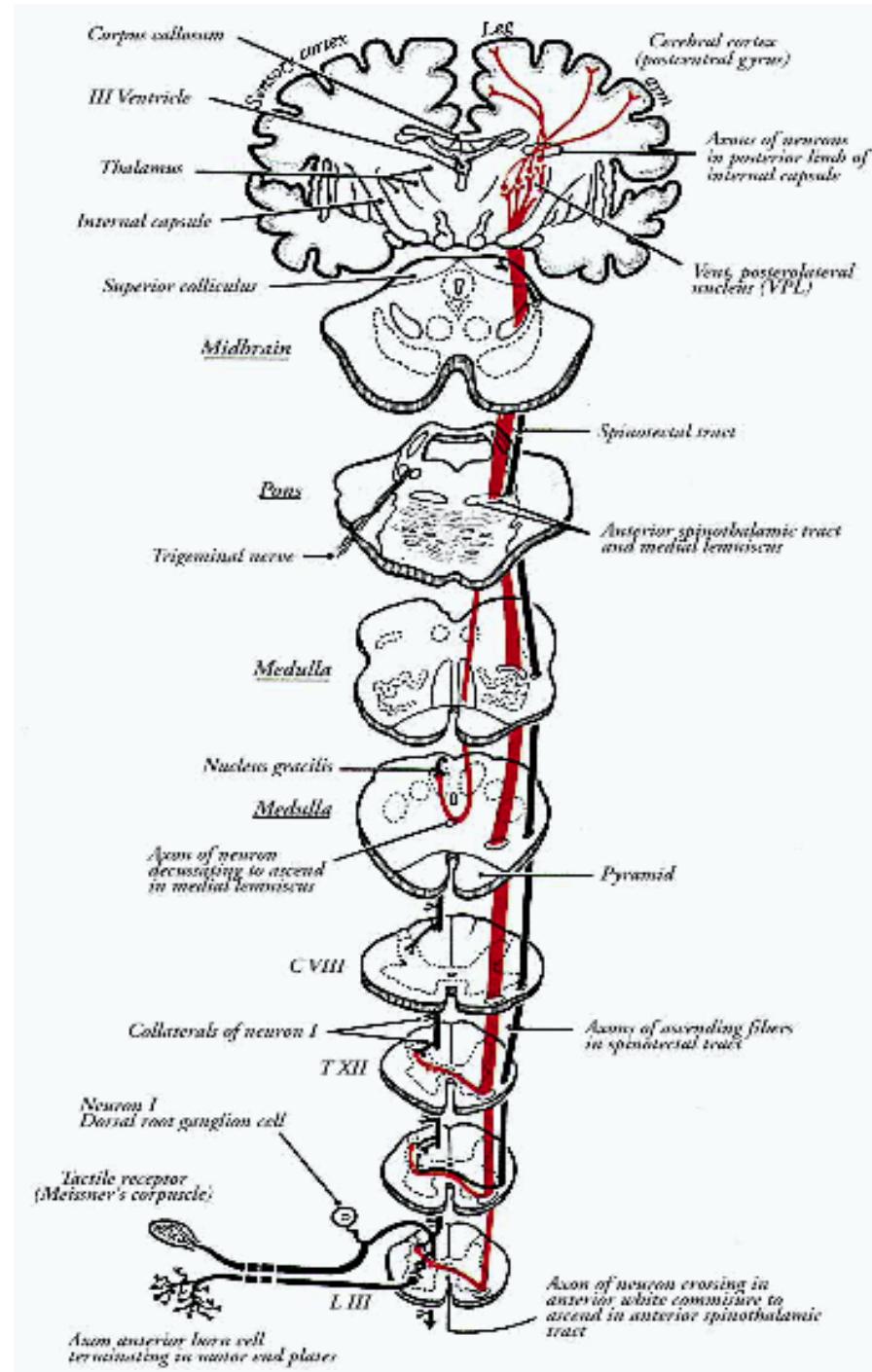
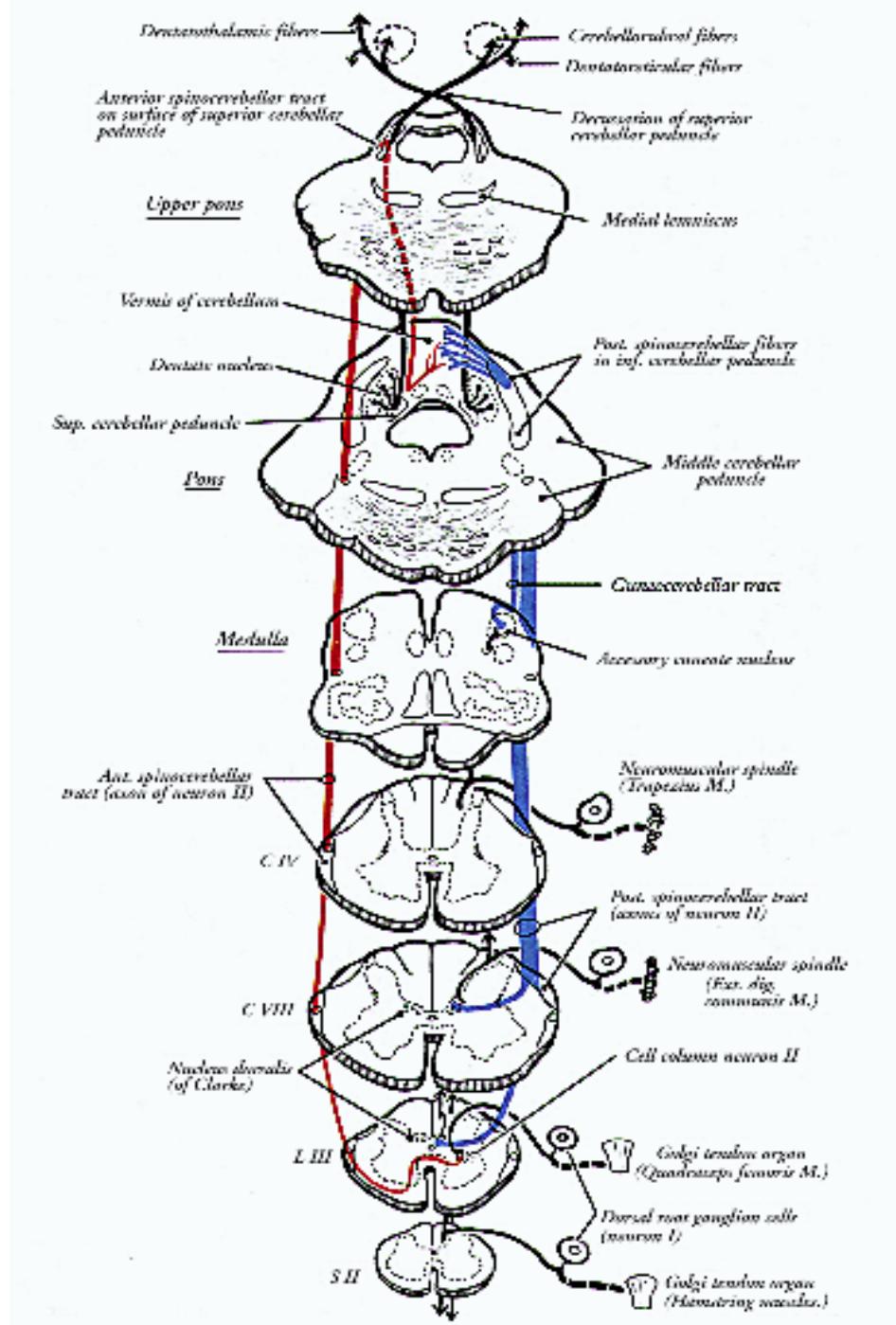


Figure 4–11 Light touch and pressure pathways.

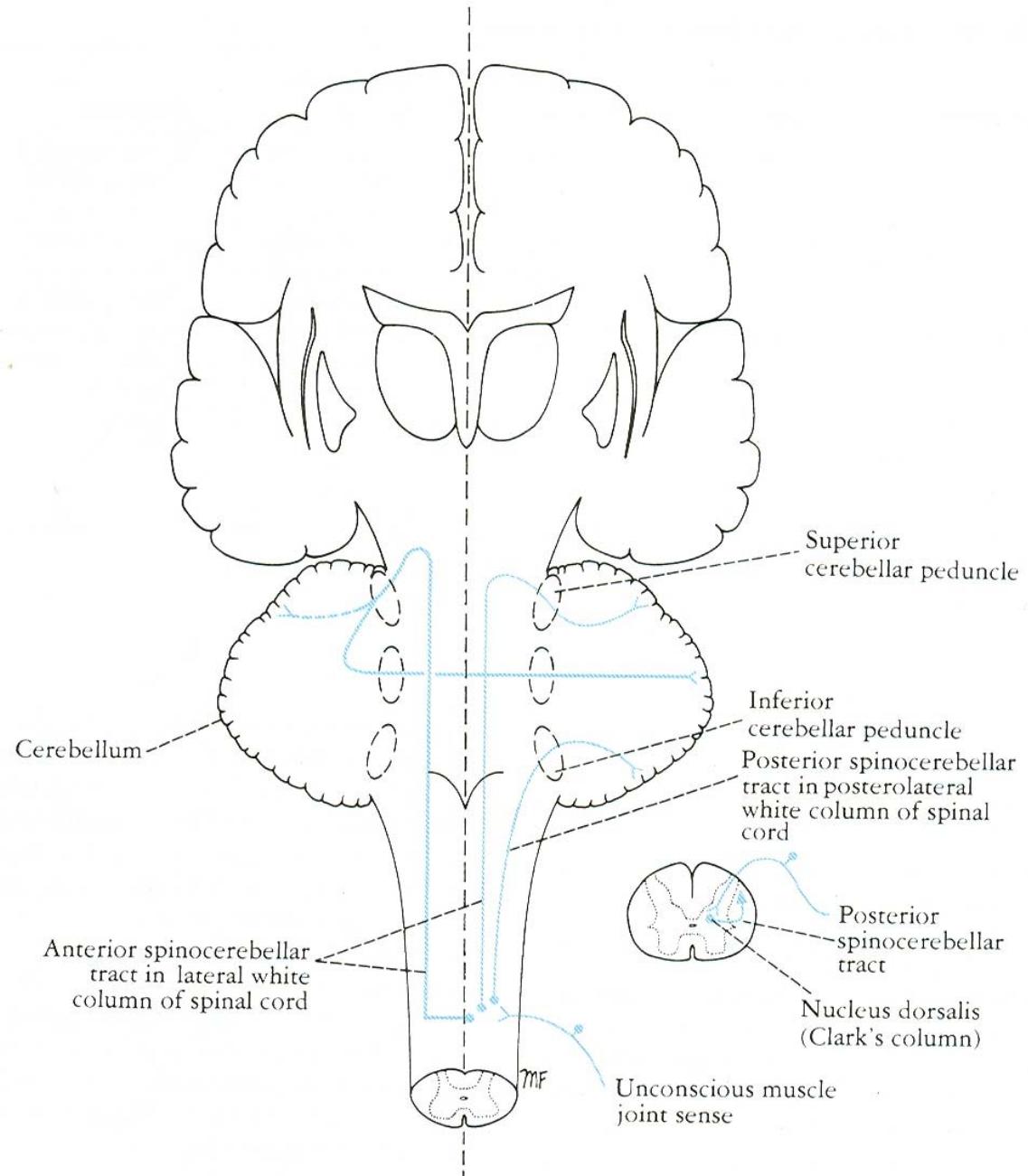
# Anterior spinothalamic tracts

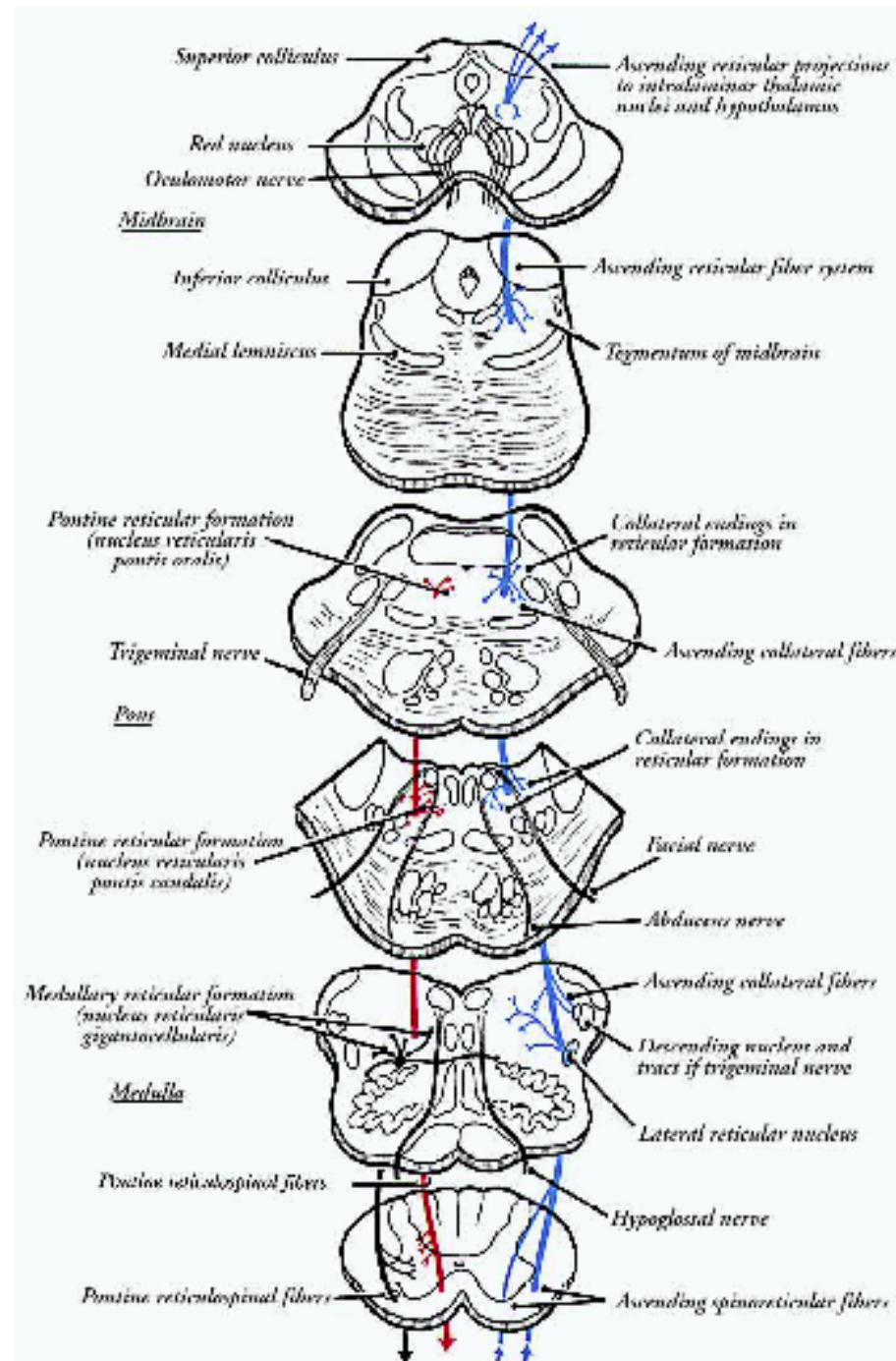


# Cuneo-cerebellar tract

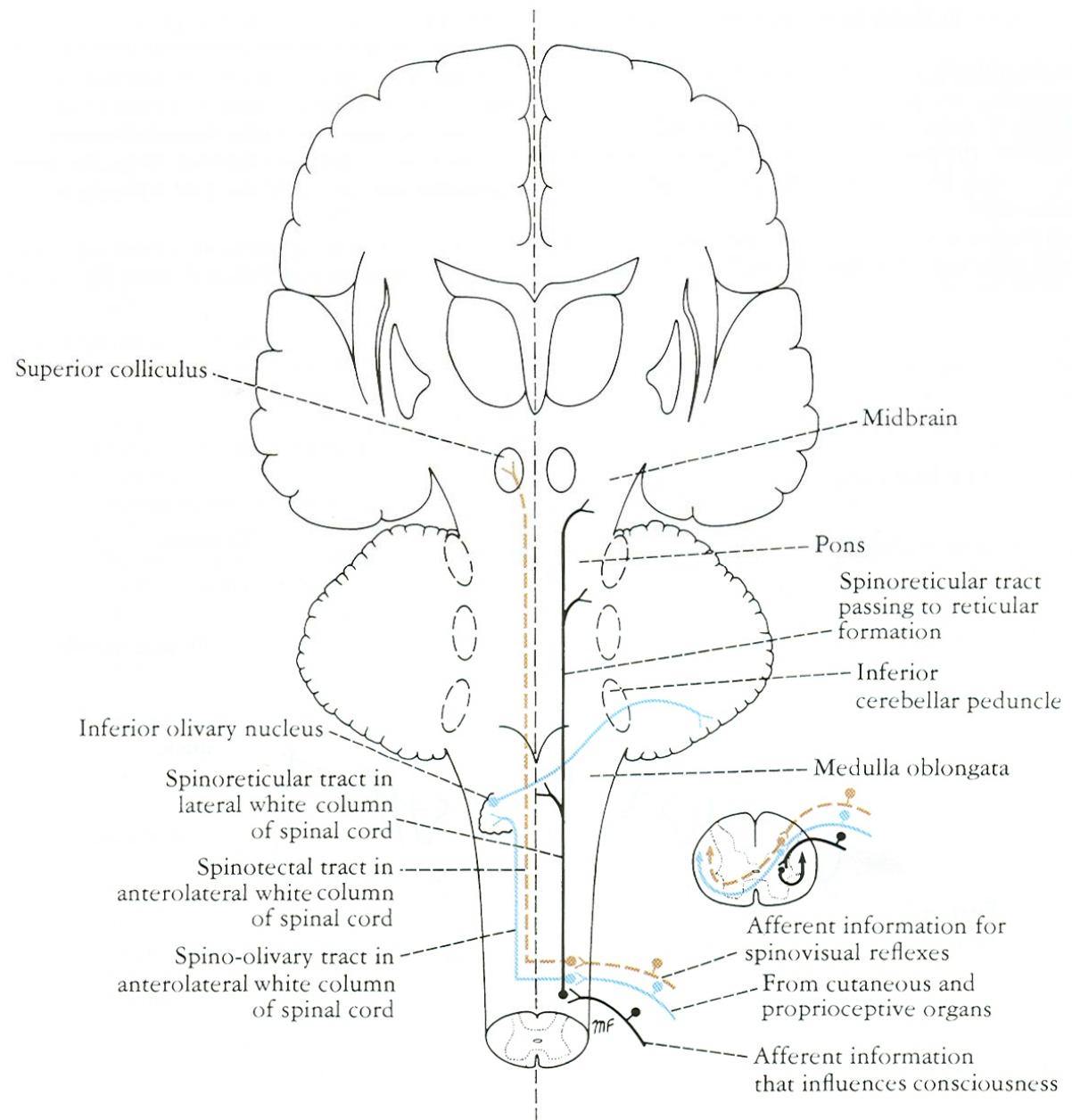


# Spinocerebellar tracts

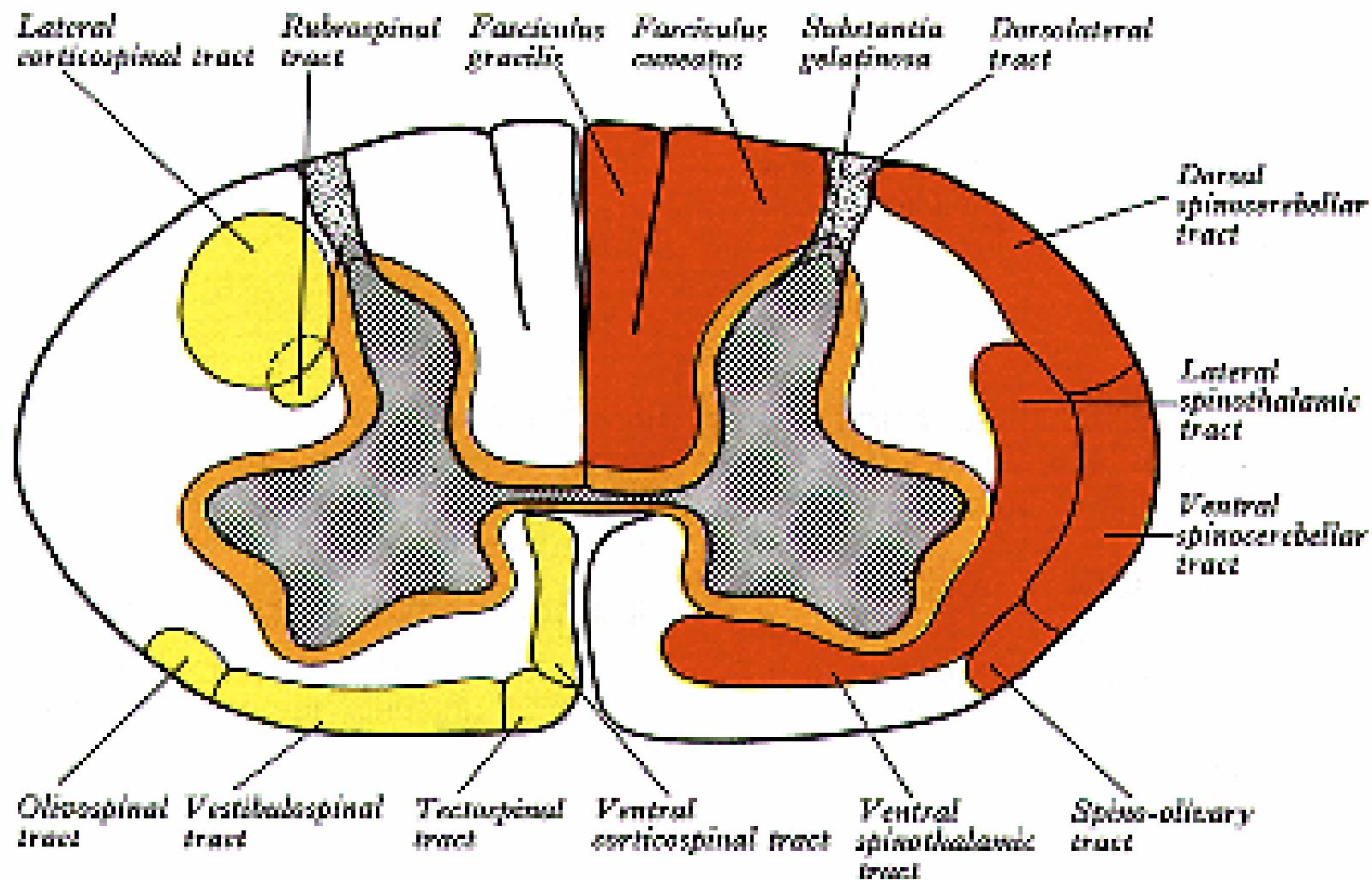




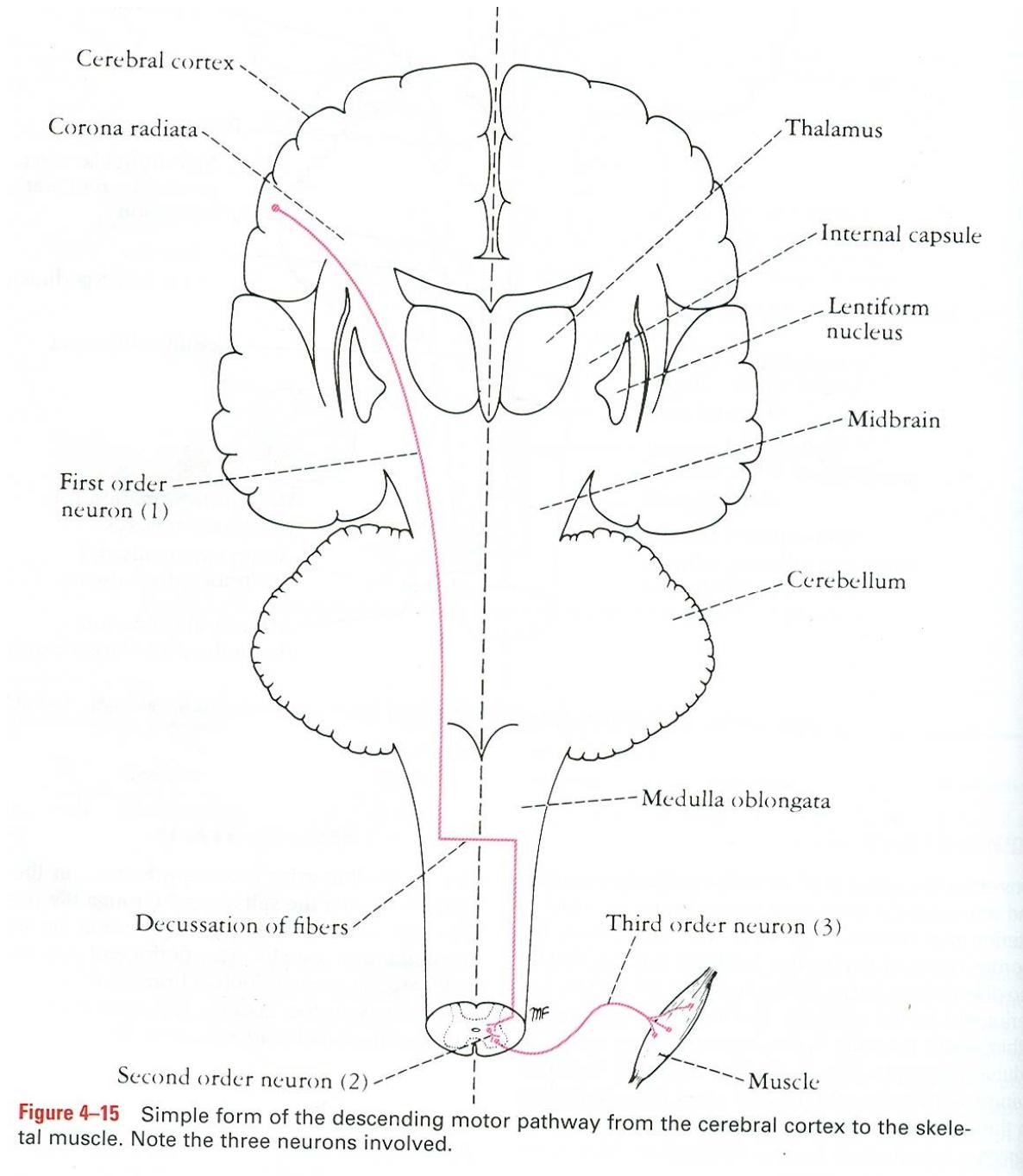
# Other ascending tracts



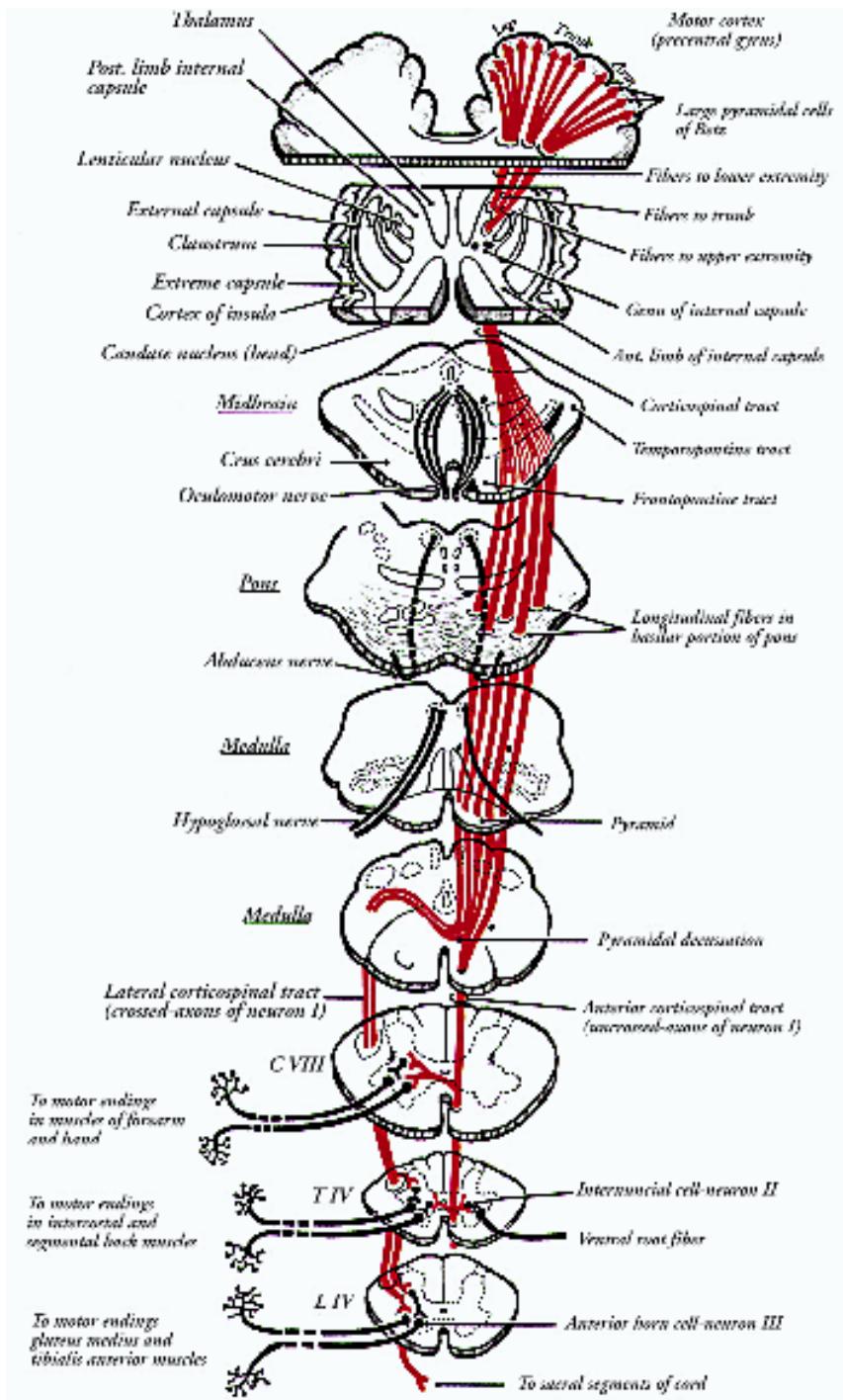
# DESCENDING TRACTS



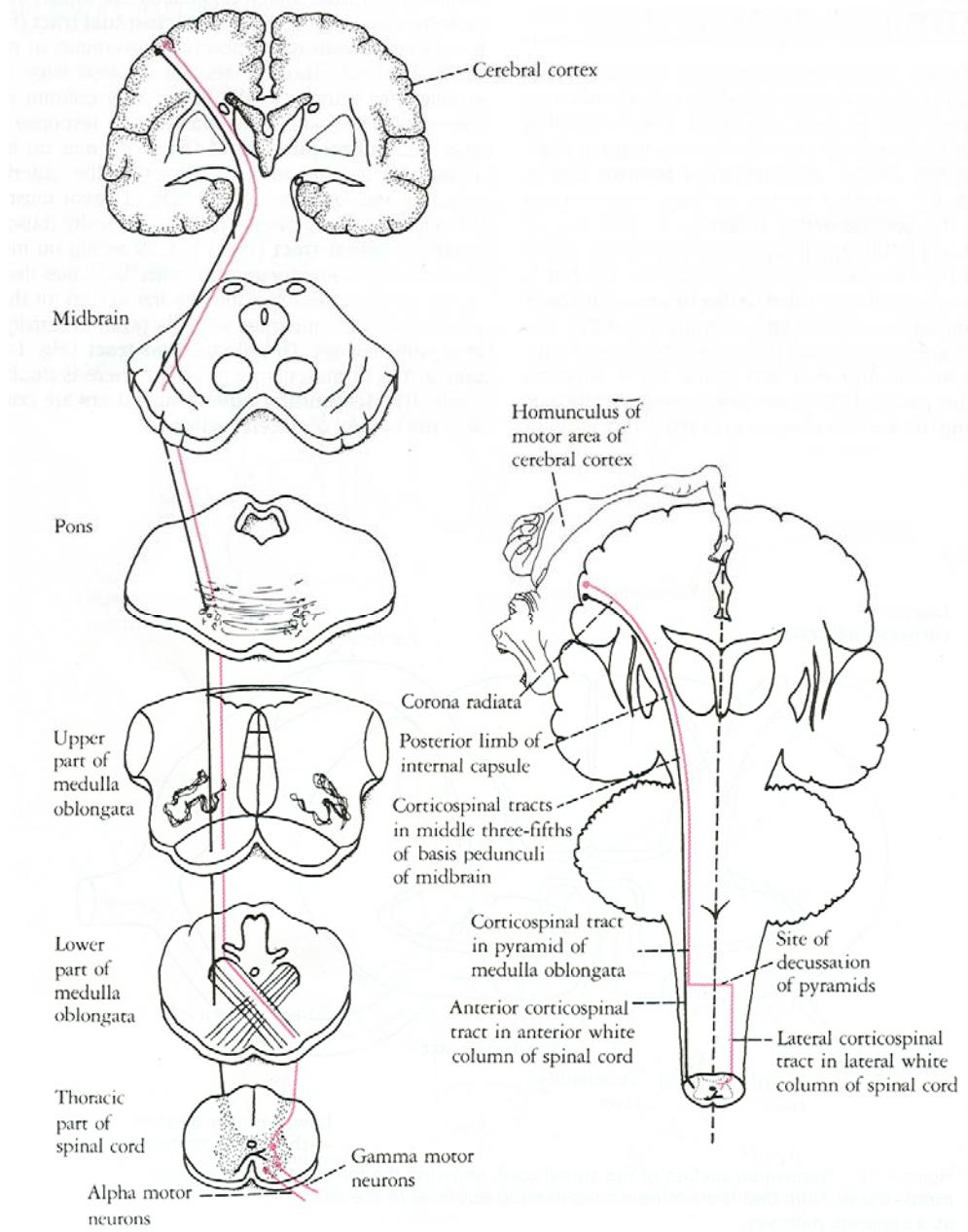
# Descending motor pathway

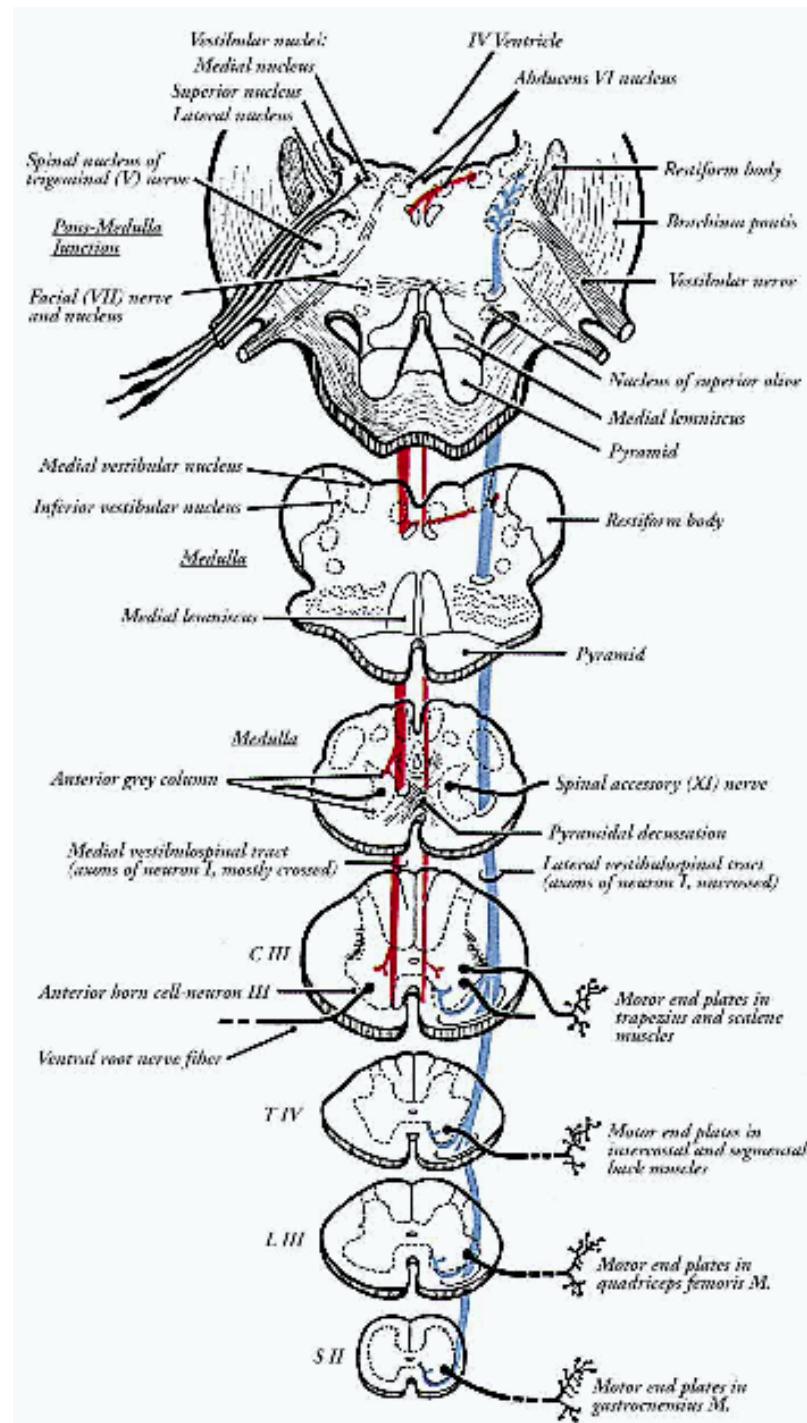


# Corticospinal tract

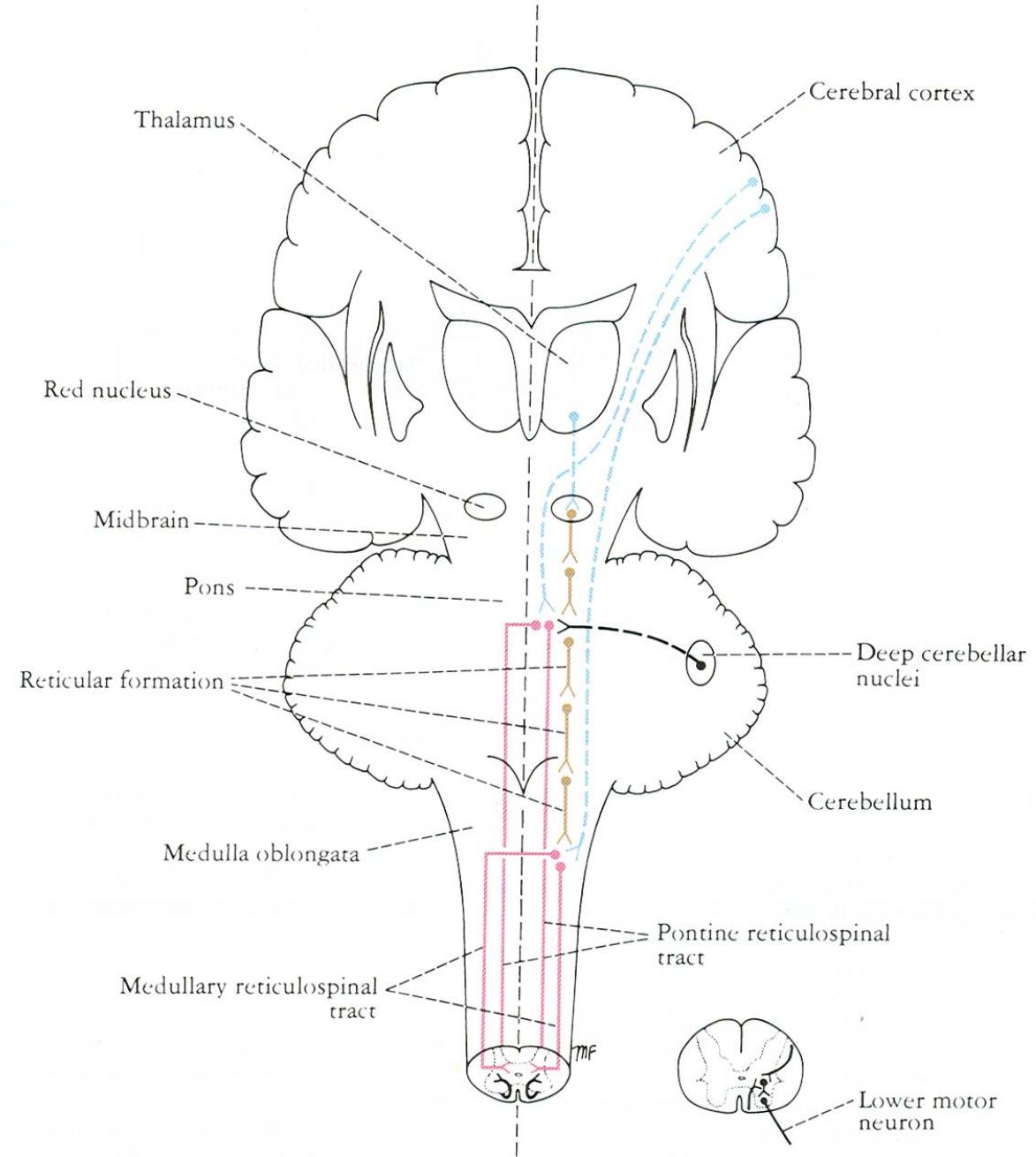


# Corticospinal tract

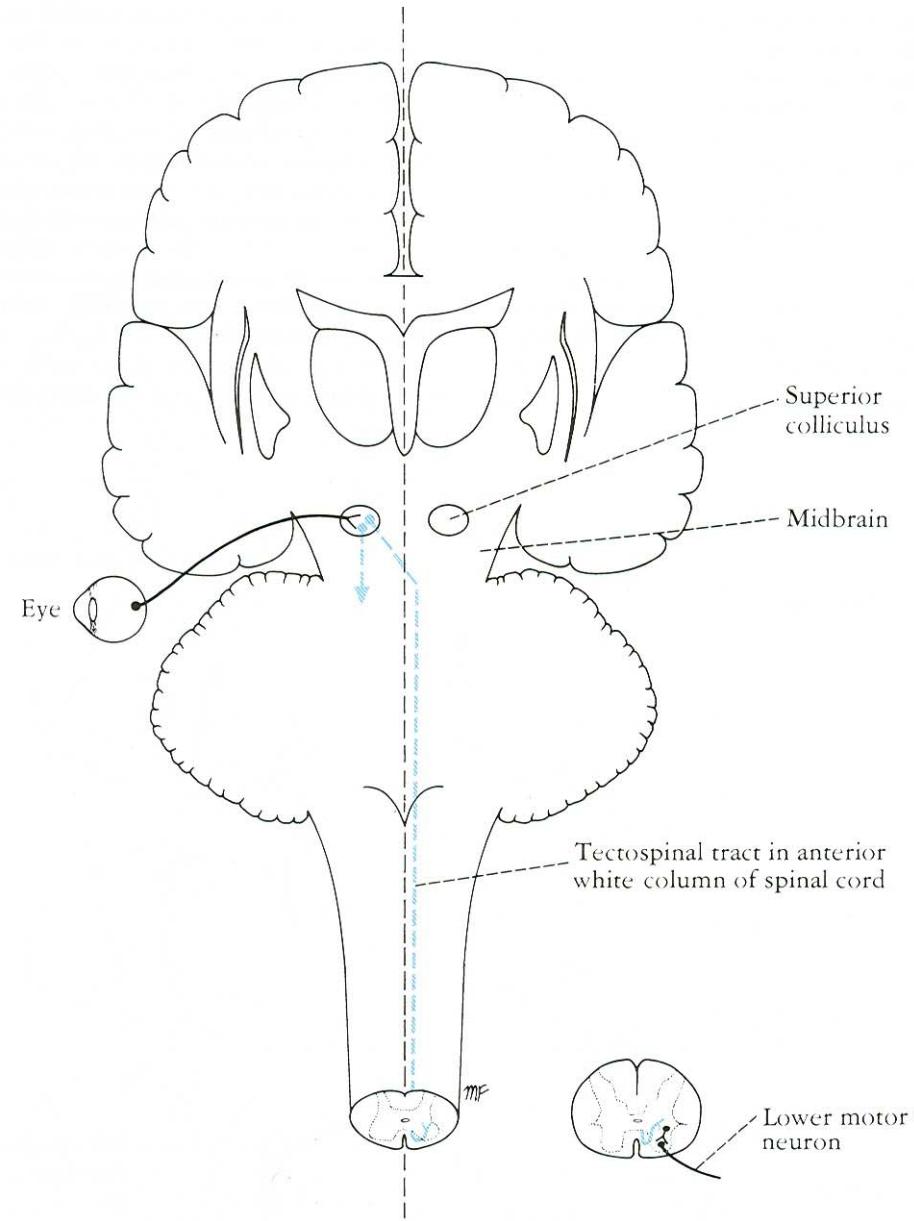




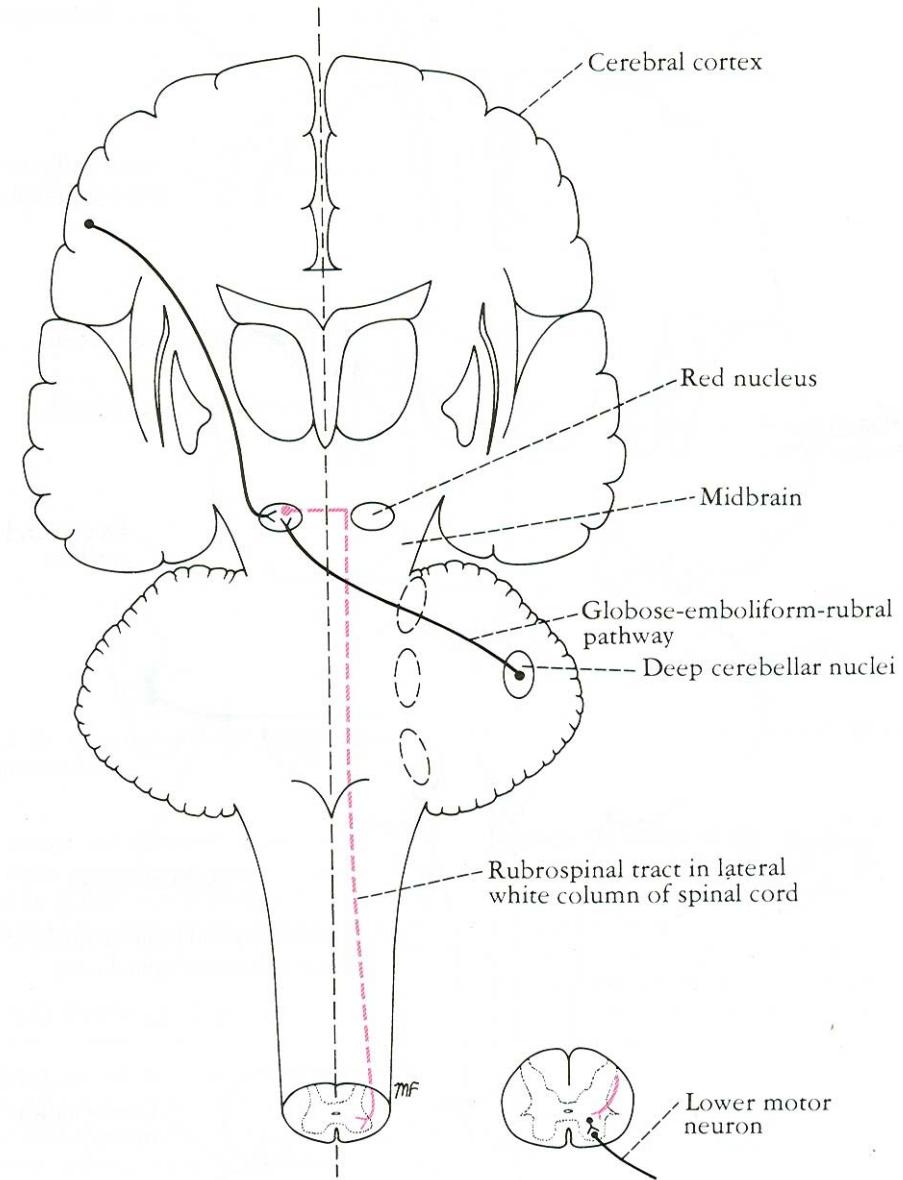
# Reticulospinal tract



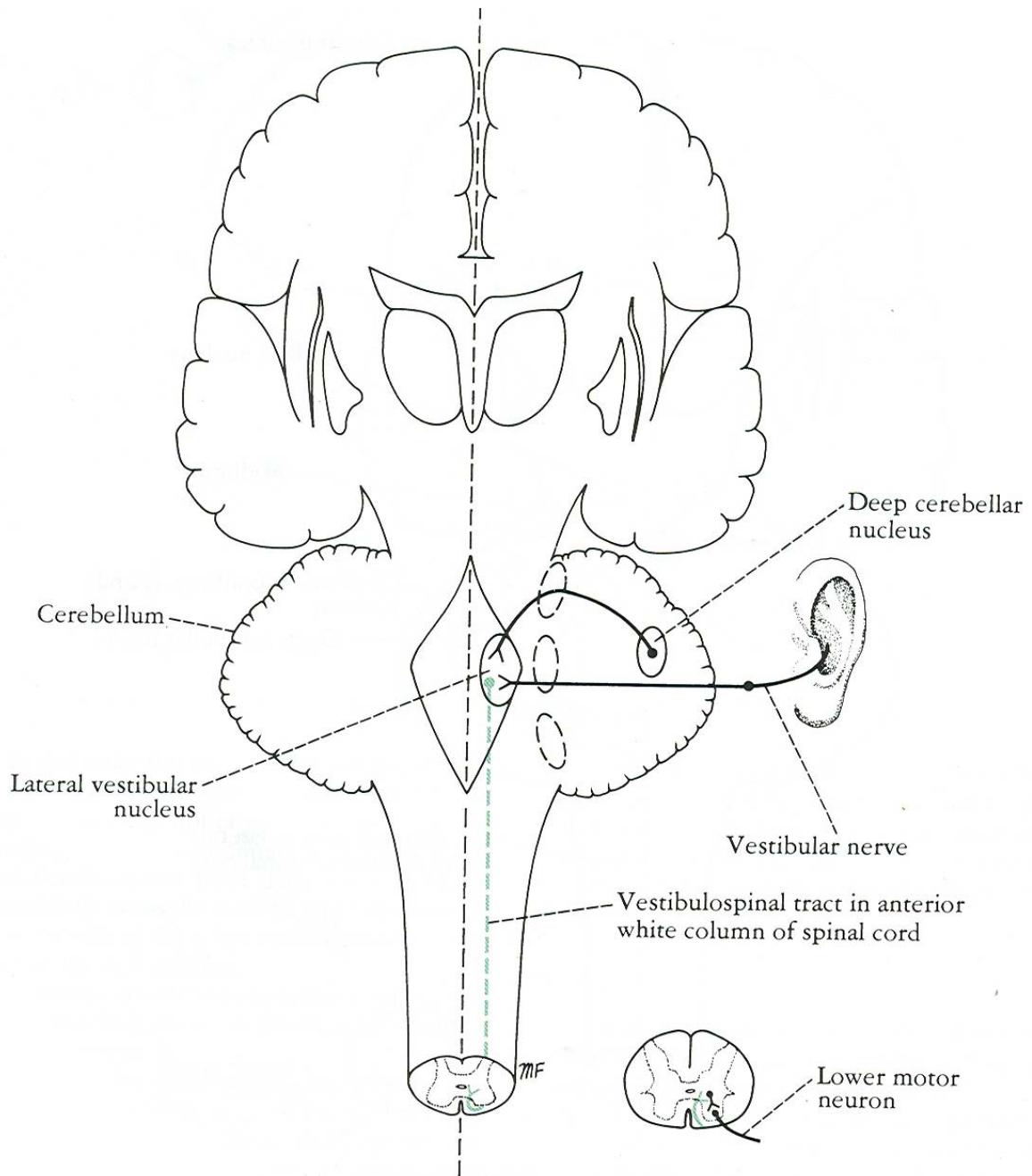
# Tectospinal tract



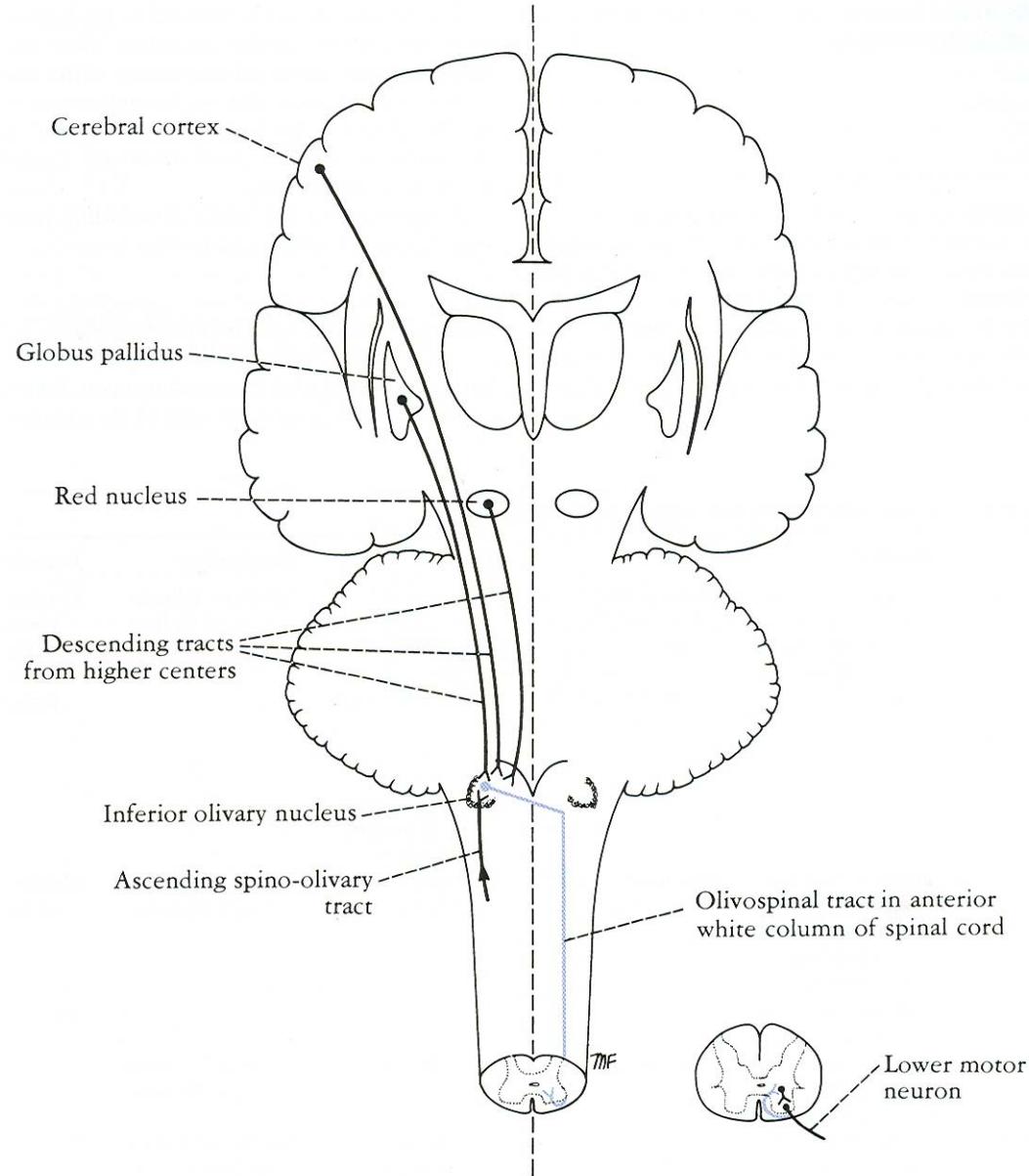
# Rubrospinal tract



# Vestibulospinal tract



# Olivospinal tract



# Applied anatomy

- **Upper motor neuron disease:**
  - if lesion is above pyramid, effect is contralateral; if below pyramid –ipsilateral
  - Sudden: flaccid hemiplegia
    - spastic hemiparesis involving loss of tendon reflex, muscle tone.
  - After effects: Muscle tone increases progressively
    - Spasticity ( hyperflexia)
    - Absence of abdominal reflexes
- **Lower motor neuron disease:**
  - Weakness
  - Wasting
  - Loss of tendon reflex
  - Fasciculation
  - Fibrillations