

Extrapyramidal Motor System

function = Motor Programming

subconscious patterns of movement
that occur when carrying out
learned/skilled movements

* "Smoothly orchestrated
movement"

* "refining Motor data"

Major Nuclei

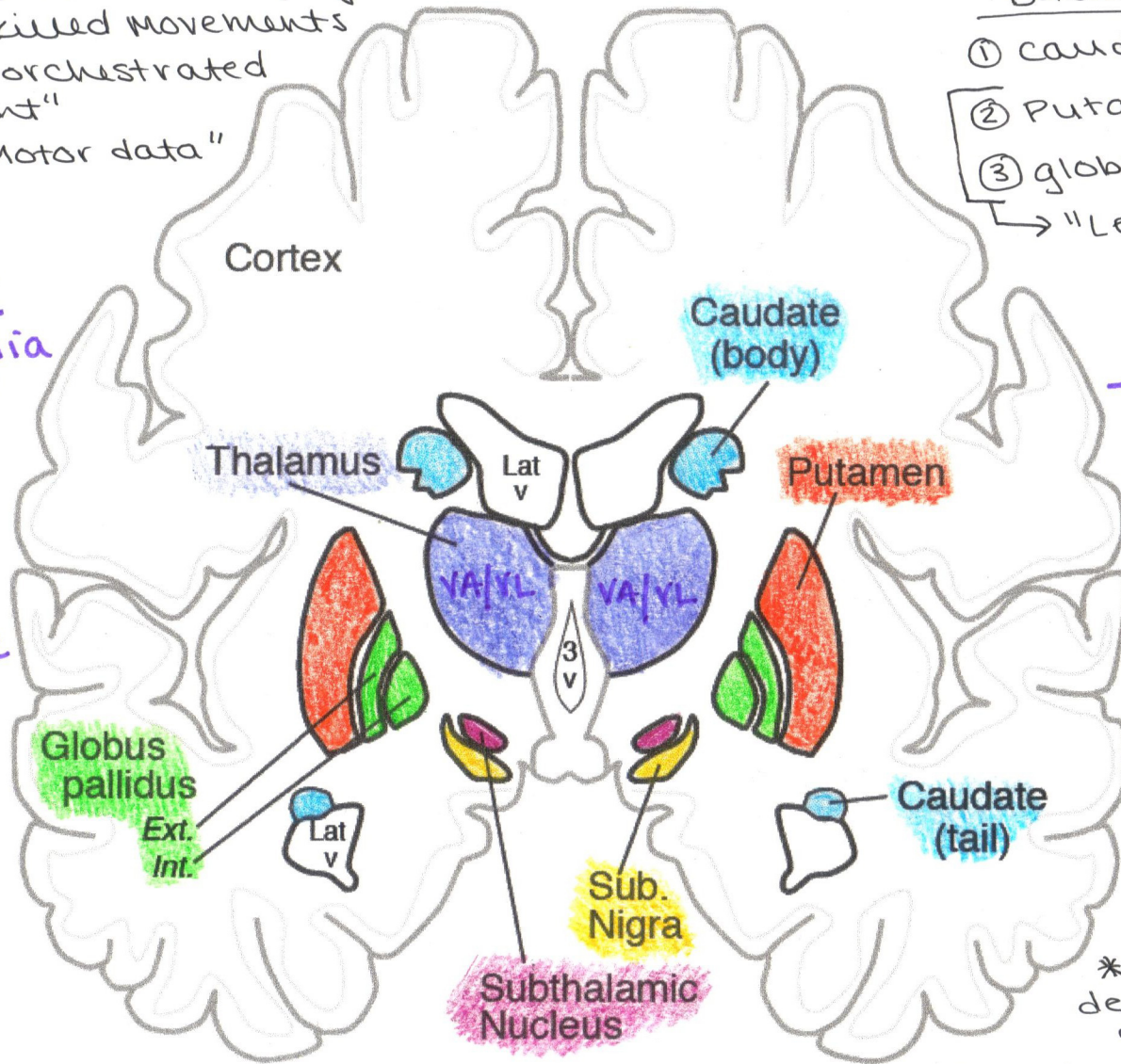
① Basal Ganglia

A. caudate
B. Putamen

C. Globus Pallidus
- GPi
- GPe

② Subthalamic Nucleus

③ Substantia Nigra



Subthalamic Nucleus

- sends excitatory Projections to Gpi

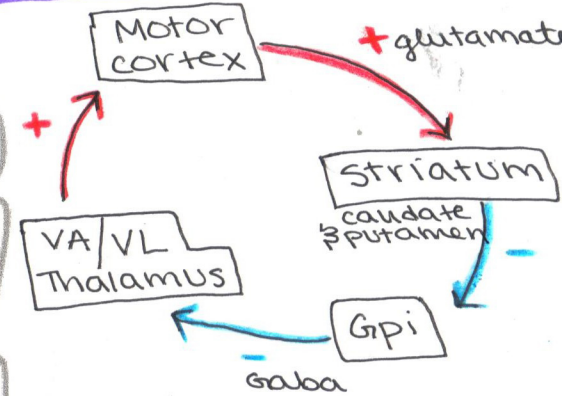
Substantia Nigra

- located in Midbrain
- contains Melanin granules
- releases dopamine

Basal Ganglia

- ① caudate
 - ② Putamen
 - ③ globus Pallidus
- "Lentiform Nucleus"

"Direct" EPS pathway



* overall effect is to
increase excitatory
thalamic input to the
cortex which facilitates
normal movement
* the Indirect Pathway
decreases excitatory
drive & thus balances
the excitatory
input to facilitate
normal movement