

PHTY126 Neuromuscular Studies 1
Scenario 5



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Quiz

Functions of basal ganglia

The basal ganglia has a purely motor function

☐ True

☐ False

The term basal ganglia is often used interchangeably with the term corpus striatum.

☐ True

☐ False

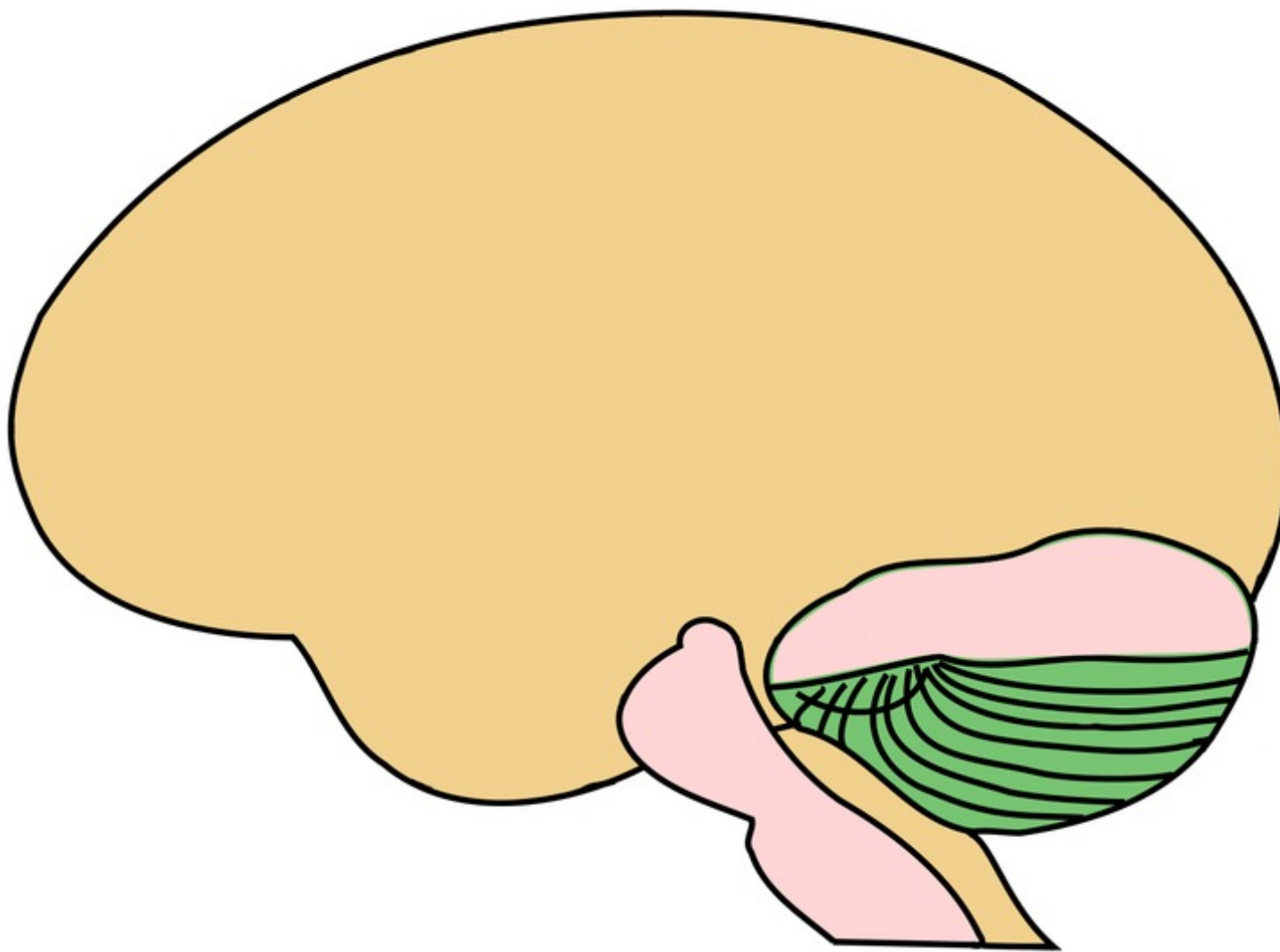
Basal ganglia disorders always cause movements to reduce in speed

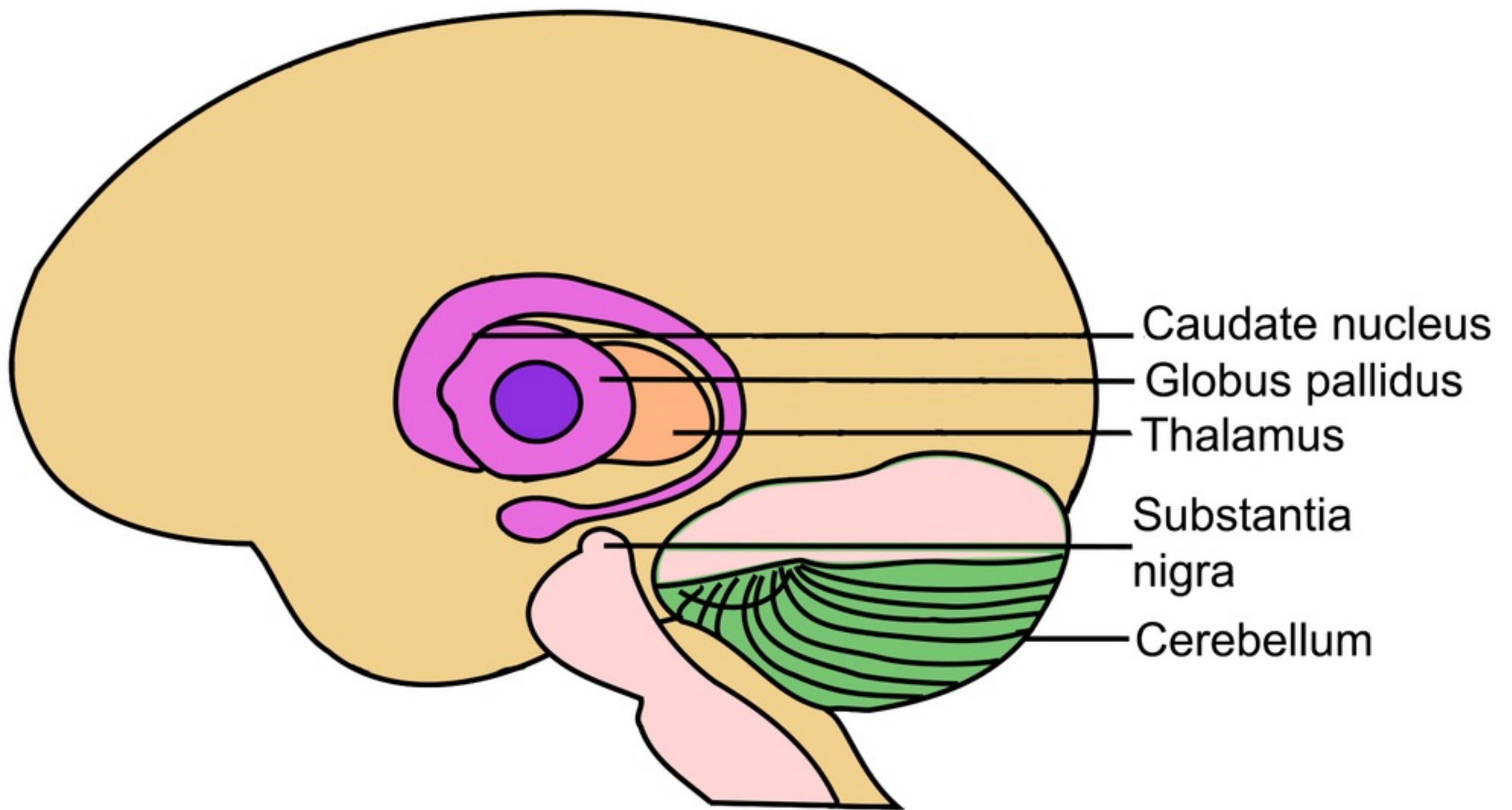
☐ True

☐ False

Draw It

Draw the basal ganglia (location, shape, size).





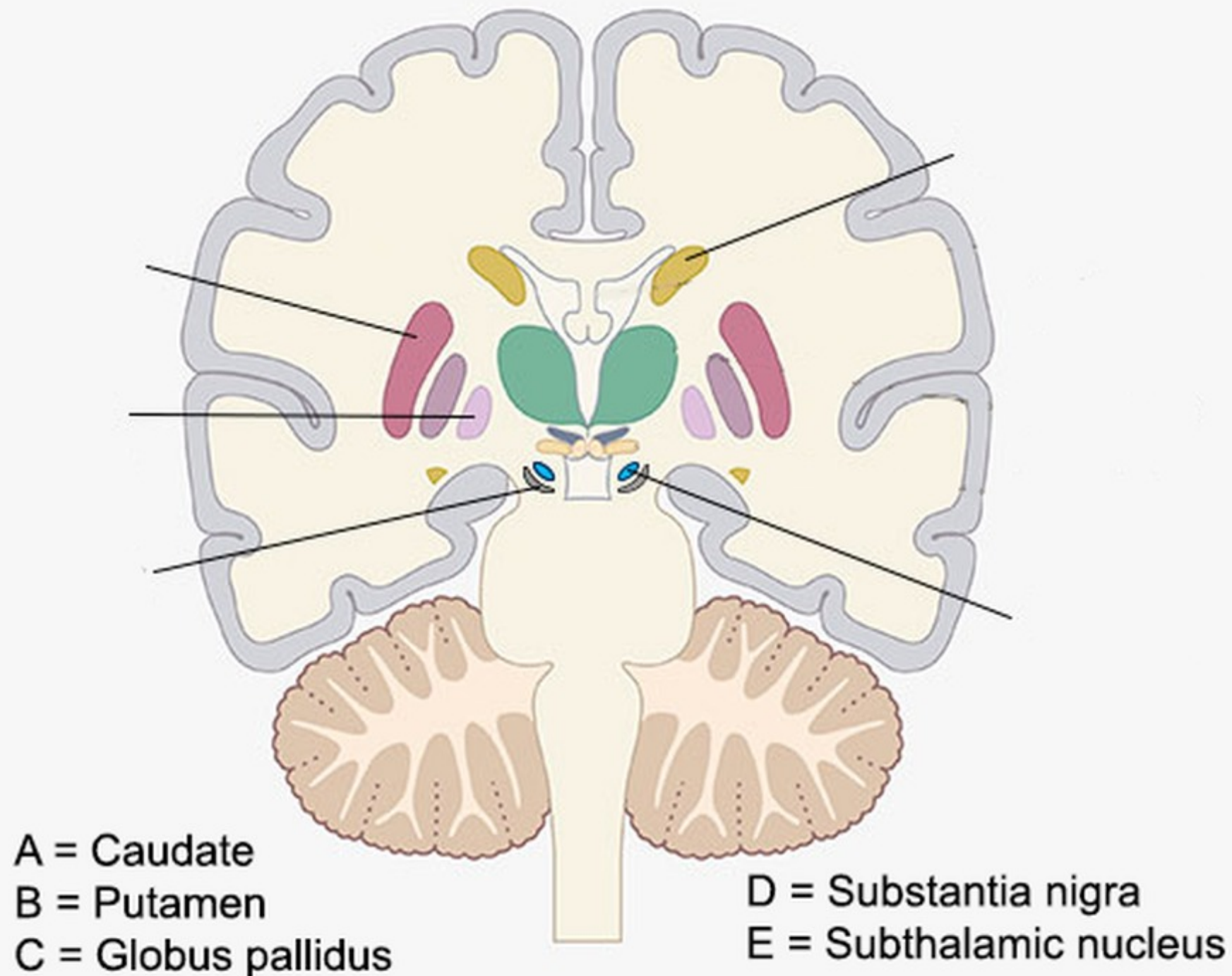
Poll

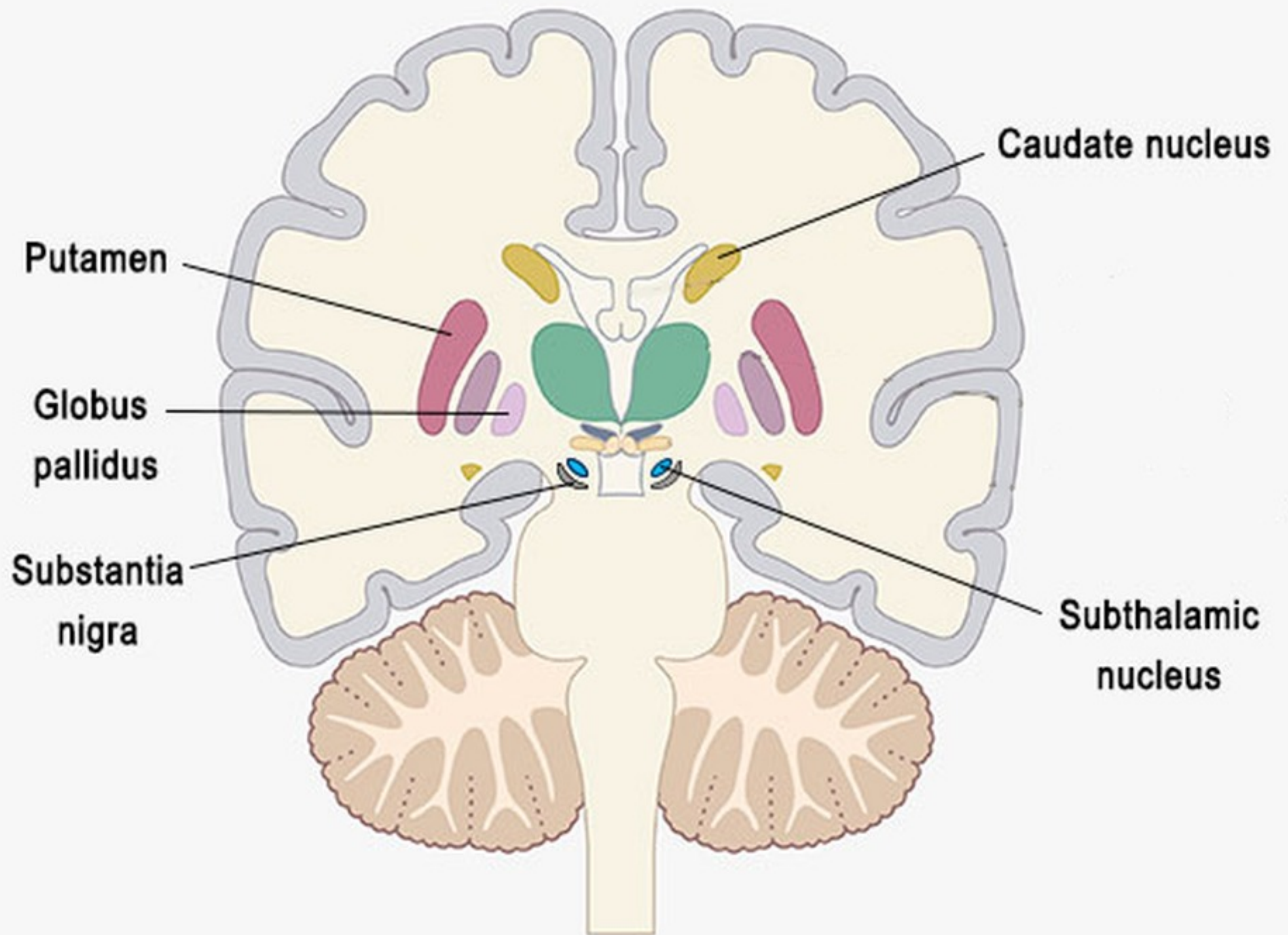
Which of the following is not a function of the basal ganglia?

- ☐ Co-ordination of movement
- ☐ Control of emotion
- ☐ Integration of movement
- ☐ Control of posture
- ☐ Prevention of unwanted movement

Draw It

Label (A - E) the subcortical nuclei that make up the basal ganglia.





Open Ended Question

List 5 symptoms associated with movements disorders (basal ganglia dysfunction).

Answers

Rigidity

Bradykinesia

Resting tremor

Chorea/athetosis

Dystonia/tics

Poll

Which of the following is incorrect

- ☐ GABA - excitatory function
- ☐ Substantia nigra - dopamine production
- ☐ Striatum - input region
- ☐ Glutamate - excitatory function
- ☐ Globus pallidus - output region

Open Ended Question

Name two locations from which the basal ganglia receives information.

Poll

Which of these statements is correct about the direct pathway?

- ☐ It inhibits the indirect pathway
- ☐ It encourages the production of dopamine
- ☐ It produces voluntary movement.
- ☐ It prevents unwanted movement
- ☐ It increases muscle tone.

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