

Neuroanatomy: CNS Structures

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Ventricular System

- lateral ventricles (telencephalon)
- third ventricle (diencephalon)
- cerebral aqueduct (mesencephalon)
- fourth ventricle (met- and myelencephalon)
- central canal (spinal cord)

Spinal Cord

- grey matter
- white matter
- sensory & motor tracts
- corticospinal tract

Myelencephalon

- vegetative nuclei
- decussation of the pyramids
- reticular formation
- raphé nuclei

Metencephalon

- reticular formation
- pons
- cerebellum
- locus coeruleus

Mesencephalon

- cerebral peduncle
- tegmentum
- substantia nigra
- nigrostriatal tract
- ventral tegmental area
- mesolimbic tract
- periaqueductal grey
- tectum
- superior colliculus
- inferior colliculus
- optic tectum

Diencephalon

- pineal gland
- pituitary gland
- hypothalamus
- thalamus

Telencephalon

- descending (& ascending) tracts
- intrahemispheric tracts
- corpus callosum
- basal ganglia
- caudate n.
- putamen
- globus pallidus
- striatum
- lenticular (lentiform) n.
- n. accumbens
- limbic system
- cingulate gyrus (paleocortex)
- hippocampus
- mammillary bodies
- anterior n. of thalamus
- septum
- amygdala
- cortex
- frontal lobe
- precentral gyrus
- motor strip
- Broca's area
- central sulcus
- parietal lobe
- post-central gyrus
- (somato-)sensory strip
- occipital lobe
- primary visual cortex
- striate cortex
- temporal lobe
- Wernicke's area