

Segment	Shape	White matter	Gray matter
Cervical	C1-C3 > rounded C4-C8 > oval	V. prominent, large fasiculi.	Prominent, broad anterior horn > motor neurons for upper extremities.
Thoracic	Rounded	Below T6 > gracile fasciculus only. Above T6 > gracile and cuneatus.	Small, slender, PEGLIKE anterior grey horn. Lateral horns are unique to thoracic segments [symp.]
Lumbar	Rounded to oval	Only V. small surrounding of white matter.	V. large gray horns [motor supply to lower extremities].
Sacral	Rounded	Only V. small surrounding of white matter.	Mainly gray... Levels S2, S3, and S4 contain preganglionic parasympathetic cell bodies [sacral visceromotor].

Subarachnoid Cisternes ~

Name/Feature	Location	Receives	Protects
1/Cerebello-medullary cisterna [Cisterna magna]	Between cerebellum and roof of the 4th ventricle.	Receives foramen of Magendie.	- Vertebral artery [origin of PICA] -CN #9,10,11,12.
2/Pontine [ponto-medullary] cisterna	In front of pons and medulla.	-Receives foramina of Luschka.	-Contains basilar and vertebral arteries . -Transversed by roots of lower 8 cranial nerves .
3/Interpeduncular cisterna	Lies over interpeduncular fossa		-Contains circle of Willis . -Transversed by roots of 3rd and 4th CNs .
4/Cisterna of lateral fissure			-Contains middle cerebral vessels .
5/Callosal cisterna	Lies above corpus callosum [callosal sulcus].		-Contains anterior cerebral vessels .
6/Chiasmatic cisterna	Lies around optic chiasm		