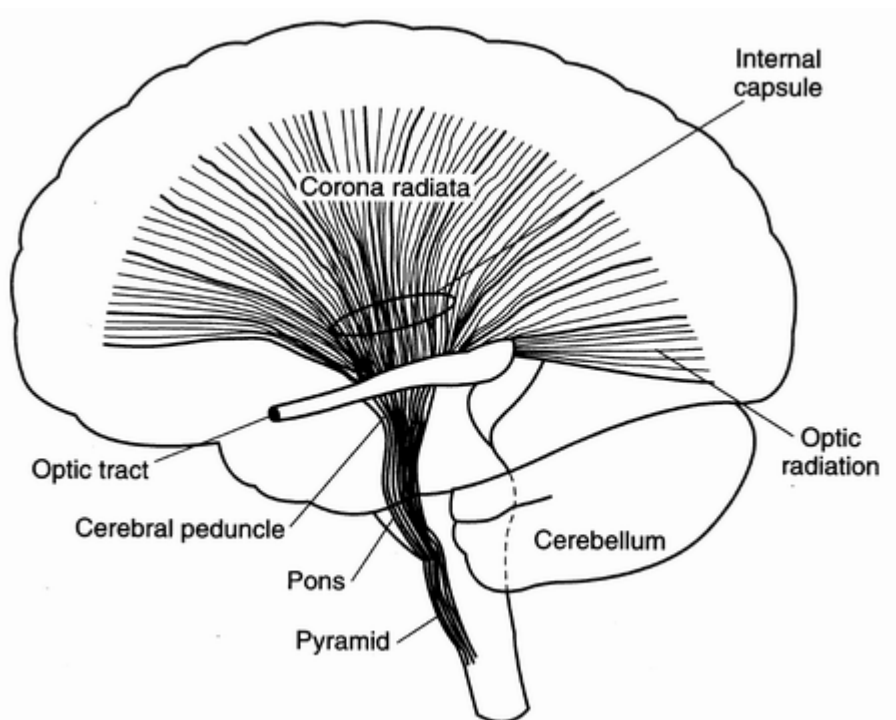


Corona radiata

White matter sheet that continues ventrally as the **internal capsule** and dorsally as the **semioval center**.



This sheet of **axons** contains both descending and ascending axons that carry nearly all of the neural traffic from and to the cerebral **cortex**.

The corona radiata is associated with the **corticospinal tract**, the **corticopontine tract**, and the **corticobulbar tract**.

The long insular arteries originate from the insular portion of the middle cerebral artery and supply the **corona radiata** and the descending **motor tract**.

The M2 segments also give rise to long perforating branches that travel posteriorly and superiorly on the insula and supply the **corona radiata** ¹⁾.

These branches must be preserved to avoid ischemic injury resulting in hemiparesis ²⁾.

¹⁾

Türe U, Yaşargil MG, Al-Mefty O, Yaşargil DC. Arteries of the insula. J Neurosurg. 2000 Apr;92(4):676-87. PubMed PMID: 10761659.

²⁾

Hentschel SJ, Lang FF: Surgical resection of intrinsic insular tumors. Neurosurgery 57 (1 Suppl):176-183, 2005

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