

Central quadrantotomy

Central [quadrantotomy](#) is a surgical [procedure](#) used to treat a condition called [homonymous hemianopia](#), which is a [visual field defect](#) that occurs as a result of damage to the [optic pathway](#) in the brain. In this procedure, a portion of the [optic nerve fibers](#) that are responsible for transmitting visual information from the central part of the visual field to the brain is cut. This results in a smaller [visual field](#), but it can help patients with homonymous hemianopia to better navigate and function in their daily lives.

Central quadrantotomy is typically performed under [general anesthesia](#), and the procedure involves making a small incision in the scalp to access the skull. The surgeon then creates a small hole in the skull to gain access to the brain and uses a surgical instrument to carefully cut the targeted optic nerve fibers. After the procedure, patients may experience some temporary visual disturbances or headaches, but these usually resolve within a few days. Rehabilitation and therapy may be necessary to help patients adjust to their new visual field and improve their functional abilities.

Cossu G, Aureli V, Roulet-Perez E, Thomas C, Marston JS, Pralong E, Messerer M, González-López P, Daniel RT. [Central quadrantotomy](#) for intractable [childhood epilepsy](#): operative [technique](#) and [functional neuroanatomy](#). J Neurosurg Pediatr. 2023 Feb 10:1-9. doi: 10.3171/2022.11.PEDS22356. Epub ahead of print. PMID: 36787130.

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