

1934

see [1933](#) - [1935](#)

In [1934](#) at the University of [Basel](#) under Eugen Ludwig, [Josef Klingler](#) developed a new method of [dissection](#) based on a freezing technique for [brain tissue](#) that eloquently revealed the [white matter tracts](#).

In [1908](#) the first successful lumbar [discectomy](#) was initiated and performed by the German neurologist [Heinrich Oppenheim](#) (1858-1919) and the surgeon [Fedor Krause](#) (1857-1937); however, neither recognized the true pathological condition of discogenic [nerve compression syndrome](#). With the landmark report in [The New England Journal of Medicine](#) in [1934](#), the two American surgeons [William Jason Mixter](#) (1880-1958) and [Joseph Seaton Barr](#) (1901-1963) finally clarified the pathomechanism of [lumbar disc herniation](#) and furthermore, propagated [discectomy](#) as the standard therapy.

[Walter Edward Dandy](#) is credited with the first accurate diagnosis and successful removal of a [Brainstem cavernous malformation](#) in 1934, but few cases were documented in the following decades because neurosurgeons considered intervention too dangerous ¹⁾.

In Germany various surgeons performed individual cranial [operations](#) before the 1870s, and [neurosurgery](#) evolved as a distinct discipline in Germany around [1934](#) ²⁾.

Publications

Torkildsen A. The Gross Anatomy of the Lateral Ventricles. J Anat. 1934 Jul;68(Pt 4):480-91. PubMed PMID: 17104497; PubMed Central PMCID: PMC1249003 ³⁾.

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Voigt K, Yaşargil MG: Cerebral cavernous haemangiomas or cavernomas. Incidence, pathology, localization, diagnosis, clinical features and treatment. Review of the literature and report of an unusual case. Neurochirurgia (Stuttg) 19:59- 68, 1976

²⁾

Buchfelder M. From trephination to tailored resection: neurosurgery in Germany before World War II. Neurosurgery. 2005 Mar;56(3):605-13; discussion 605-13. doi: 10.1227/01.neu.0000155336.06394.7f. PMID: 15730586.

³⁾

Torkildsen A. The Gross Anatomy of the Lateral Ventricles. J Anat. 1934 Jul;68(Pt 4):480-91. PubMed PMID: 17104497; PubMed Central PMCID: PMC1249003.

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