

Lauri Laitinen

Professor Lauri Laitinen, one of the pioneers of modern [movement disorder](#) neurosurgery, started operating on [Parkinson](#) patients in [Helsinki](#) in [1963](#), using the Cooper's frame. Later, he invented his own frame, which was in use for 20 years in many places in the Nordic countries ¹⁾.

He was a pioneer of stereotactic [psychosurgery](#) in the 1950s to 1970s, especially by introducing the subgenual [cingulotomy](#).

The aim of Huotarinen et al. was to verify the anatomical target used by Laitinen, to report on a patient who underwent this procedure, and to review the literature.

The records of [Helsinki University Hospital](#) were searched for psychosurgical cases performed between 1970 and 1974. Alive consenting patients were interviewed and underwent a brain MRI.

They found 1 patient alive who underwent subgenual cingulotomy in 1971 for obsessive thoughts, anxiety, and compulsions, diagnosed at that time as "schizophrenia psychoneurotica." MRI showed bilateral subgenual cingulotomy lesions (254 and 160 mm³, respectively). The coordinates of the center of the lesions in relation to the midcommissural point for the right and left, respectively, were: 7.1 and 7.9 mm lateral; 0.2 mm inferior and 1.4 mm superior, and 33.0 and 33.9 anterior, confirming correct subgenual targeting. The patient reported retrospective satisfactory results.

The lesion in this patient was found to be in the expected location, which gives some verification of the correct placement of Laitinen's subgenus cingulotomy target ²⁾.

1)

http://www.hus.fi/en/medical-care/medical-services/Neurosurgery/for_professionals/neurosurgical_subspecialties/functional_neurosurgery/Pages/default.aspx

2)

Huotarinen A, Kivisaari R, Hariz M. Laitinen's Subgenual Cingulotomy: Anatomical Location and Case Report. *Stereotact Funct Neurosurg*. 2018 Oct 2;1-5. doi: 10.1159/000492058. [Epub ahead of print] PubMed PMID: 30278436.

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