

Globus pallidus internus: [Deep brain stimulation](#) (DBS) of the globus pallidus internus (GPi) has been established as an effective and safe treatment for [dystonia](#).

see [Pallidal Deep Brain Stimulation](#)

[Pedunculopontine nucleus](#)

[Subthalamic nucleus](#)

see [subthalamic deep brain stimulation](#)

[Nucleus basalis of Meynert](#)

Thalamus

Deep brain stimulation of the [thalamus](#) (and especially the ventral intermediate nucleus) does not significantly improve a drug-resistant, disabling cerebellar tremor. The dentato-rubro-olivary tract (Guillain-Mollaret triangle, including the red nucleus) is a subcortical loop that is critically involved in [tremor](#) genesis.

The red nucleus is a important centre for the genesis of [cerebellar tremor](#) and thus a possible target for drug-refractory tremor. Future research must determine how neuromodulation of the red nucleus can best be implemented in patients with cerebellar degeneration ¹⁾.

¹⁾

Lefranc M, Manto M, Merle P, Tir M, Montpellier D, Constant JM, Le Gars D, Macron JM, Krystkowiak P. Targeting the Red Nucleus for Cerebellar Tremor. Cerebellum. 2014 Jan 11. [Epub ahead of print] PubMed PMID: 24415178.

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