

Surgical treatment of Parkinson's disease

Parkinson's disease is caused by degeneration of neurons pars compacta substantiae nigrae - dopamine, production is reduced, which leads to its deficiency in the striatum.

- *Clinically*: hypokinetic-hypertonic syndrome – tremor, rigidity, bradykinesia
- Ventrolateral thalamotomy was used before the discovery of levodopa it affected mainly tremor, limiting the possibility of only one-sided performance with an unacceptable risk of dysarthria, gait disorders and cognitive deficit in bilateral thalamotomy
- Today **surgical therapy reserved**: for patients refractory to pharmacotherapy + those who develop significant dyskinesias as an adjunct to levodopa treatment
- *Stereotactic pallidotomy* radiofrequency / cryodestruction
- Non-destructive deep stimulation *ncl. subthalamicus / posteroventral pallid*
- Transplantation of *fetal dopaminergic bb.* - results not yet convincing

Links

References

- ws:Chirurgická léčba Parkinsonovy choroby
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Related articles

- Parkinson's disease / PGS
- Parkinson's syndrome
- Extrapyrmidal syndromes
- Hyperkinetic extrapyramidal syndromes