

9 LITERATUR

1. Gelb DJ, Oliver E and Gilman S. Diagnostic criteria for Parkinson disease. Arch Neurol 1999; 56:33-9
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9923759
2. Wersinger C and Sidhu A. An inflammatory pathomechanism for Parkinson's disease? Curr Med Chem 2006; 13:591-602
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16515523
3. Rascol O, Goetz C, Koller W, Poewe W and Sampaio C. Treatment interventions for Parkinson's disease: an evidence based assessment. Lancet 2002; 359:1589-98
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12047983
4. Volkmann J. Deep brain stimulation for the treatment of Parkinson's disease. J Clin Neurophysiol 2004; 21:6-17
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15097290
5. Benabid AL, Koudsie A, Benazzouz A, et al. Deep brain stimulation for Parkinson's disease. Adv Neurol 2001; 86:405-12
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11554003
6. Krack P, Hamel W, Mehdorn HM and Deuschl G. Surgical treatment of Parkinson's disease. Curr Opin Neurol 1999; 12:417-25
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10555830
7. Benabid AL, Pollak P, Gross C, et al. Acute and long-term effects of subthalamic nucleus stimulation in Parkinson's disease. Stereotact Funct Neurosurg 1994; 62:76-84
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=7631092
8. Darley FL, Aronson AE and Brown JR. Differential diagnostic patterns of dysarthria. J Speech Hear Res 1969; 12:246-69
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=5808852
9. Ziegler W, Vogel M, Gröne B and Schröter-Morasch H. Dysarthrie. Stuttgart: Georg Thieme Verlag, 2002
10. Ackermann H and Riecker A. The contribution of the insula to motor aspects of speech production: a review and a hypothesis. Brain Lang 2004; 89:320-8
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15068914

LITERATUR

11. Hartelius L and Svensson P. Speech and swallowing symptoms associated with Parkinson's disease and multiple sclerosis: a survey. *Folia Phoniatr Logop* 1994; 46:9-17
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=8162135
12. Blumin JH, Pcolinsky DE and Atkins JP. Laryngeal findings in advanced Parkinson's disease. *Ann Otol Rhinol Laryngol* 2004; 113:253-8
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15112966
13. Dromeey C, Kumar R, Lang AE and Lozano AM. An investigation of the effects of subthalamic nucleus stimulation on acoustic measures of voice. *Mov Disord* 2000; 15:1132-8
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11104196
14. Gentil M, Chauvin P, Pinto S, Pollak P and Benabid AL. Effect of bilateral stimulation of the subthalamic nucleus on parkinsonian voice. *Brain Lang* 2001; 78:233-40
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11500072
15. Gentil M, Garcia-Ruiz P, Pollak P and Benabid AL. Effect of bilateral deep-brain stimulation on oral control of patients with parkinsonism. *Eur Neurol* 2000; 44:147-52
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11053962
16. Gentil M, Garcia-Ruiz P, Pollak P and Benabid AL. Effect of stimulation of the subthalamic nucleus on oral control of patients with parkinsonism. *J Neurol Neurosurg Psychiatry* 1999; 67:329-33
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10449555
17. Gentil M, Tournier CL, Pollak P and Benabid AL. Effect of bilateral subthalamic nucleus stimulation and dopatherapy on oral control in Parkinson's disease. *Eur Neurol* 1999; 42:136-40
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10529538
18. Gentil M, Pinto S, Pollak P and Benabid AL. Effect of bilateral stimulation of the subthalamic nucleus on parkinsonian dysarthria. *Brain Lang* 2003; 85:190-6
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12735936
19. Rousseaux M, Krystkowiak P, Kozłowski O, Ozsancak C, Blond S and Destee A. Effects of subthalamic nucleus stimulation on parkinsonian dysarthria and speech intelligibility. *J Neurol* 2004; 251:327-34
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15015014
20. Kumar R, Lozano AM, Kim YJ, et al. Double-blind evaluation of subthalamic nucleus deep brain stimulation in advanced Parkinson's disease. *Neurology* 1998; 51:850-5

LITERATUR

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9748038

21. Martinez-Martin P, Valldeoriola F, Tolosa E, et al. Bilateral subthalamic nucleus stimulation and quality of life in advanced Parkinson's disease. *Mov Disord* 2002; 17:372-7
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11921126
22. Ostergaard K, Sunde N and Dupont E. Effects of bilateral stimulation of the subthalamic nucleus in patients with severe Parkinson's disease and motor fluctuations. *Mov Disord* 2002; 17:693-700
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12210858
23. Romito LM, Scerrati M, Contarino MF, Bentivoglio AR, Tonali P and Albanese A. Long-term follow up of subthalamic nucleus stimulation in Parkinson's disease. *Neurology* 2002; 58:1546-50
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12034798
24. Santens P, De Letter M, Van Borsel J, De Reuck J and Caemaert J. Lateralized effects of subthalamic nucleus stimulation on different aspects of speech in Parkinson's disease. *Brain Lang* 2003; 87:253-8
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=14585294
25. Thobois S, Mertens P, Guenot M, et al. Subthalamic nucleus stimulation in Parkinson's disease: clinical evaluation of 18 patients. *J Neurol* 2002; 249:529-34
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12021940
26. Kent RD and Kent JF. Task-based profiles of the dysarthrias. *Folia Phoniatr Logop* 2000; 52:48-53
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10474004
27. Mutch WJ, Strudwick A, Roy SK and Downie AW. Parkinson's disease: disability, review, and management. *Br Med J (Clin Res Ed)* 1986; 293:675-7
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=3092977
28. Riess O, Kuhn W and Kruger R. Genetic influence on the development of Parkinson's disease. *J Neurol* 2000; 247 Suppl 2:II69-74
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10991669
29. de Rijk MC, Launer LJ, Berger K, et al. Prevalence of Parkinson's disease in Europe: A collaborative study of population-based cohorts. *Neurologic Diseases in the Elderly Research Group. Neurology* 2000; 54:S21-3

LITERATUR

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10854357

30. Twelves D, Perkins KS and Counsell C. Systematic review of incidence studies of Parkinson's disease. *Mov Disord* 2003; 18:19-31

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12518297

31. Kedar NP. Can we prevent Parkinson's and Alzheimer's disease? *J Postgrad Med* 2003; 49:236-45

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=14597787

32. Warner TT and Schapira AH. Genetic and environmental factors in the cause of Parkinson's disease. *Ann Neurol* 2003; 53 Suppl 3:S16-23; discussion S23-5

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12666095

33. Klein C. Implications of genetics on the diagnosis and care of patients with Parkinson disease. *Arch Neurol* 2006; 63:328-34

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16533959

34. Schrag A and Schott JM. Epidemiological, clinical, and genetic characteristics of early-onset parkinsonism. *Lancet Neurol* 2006; 5:355-63

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16545752

35. Parkinson J. An essay on the shaking palsy. 1817. *J Neuropsychiatry Clin Neurosci* 2002; 14:223-36; discussion 222

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11983801

36. Weiner WJ. A differential diagnosis of Parkinsonism. *Rev Neurol Dis* 2005; 2:124-31

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16400311

37. Fahn S, Elton R and Committe MotUD. Unified Parkinson's Disease Rating Scale. In Fahn S, Marsden C, et al., eds. *Recent Development in Parkinson's Disease*. Macmillan Healthcare Information Florham Park (NJ): Macmillan Healthcare Information, 1987:153-163, 293-304

38. Duda JE, Lee VM and Trojanowski JQ. Neuropathology of synuclein aggregates. *J Neurosci Res* 2000; 61:121-7

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10878583

39. Forno LS. Lewy bodies. *N Engl J Med* 1986; 314:122

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=3941689

LITERATUR

40. Corti O, Hampe C, Darios F, Ibanez P, Ruberg M and Brice A. Parkinson's disease: from causes to mechanisms. *C R Biol* 2005; 328:131-42
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15770999
41. Xu J, Kao SY, Lee FJ, Song W, Jin LW and Yankner BA. Dopamine-dependent neurotoxicity of alpha-synuclein: a mechanism for selective neurodegeneration in Parkinson disease. *Nat Med* 2002; 8:600-6
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12042811
42. Jenner P and Olanow CW. The pathogenesis of cell death in Parkinson's disease. *Neurology* 2006; 66:S24-36
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16717250
43. DeLong MR. Primate models of movement disorders of basal ganglia origin. *Trends Neurosci* 1990; 13:281-5
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=1695404
44. Alexander GE. Basal ganglia-thalamocortical circuits: their role in control of movements. *J Clin Neurophysiol* 1994; 11:420-31
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=7962489
45. Alexander GE, DeLong MR and Strick PL. Parallel organization of functionally segregated circuits linking basal ganglia and cortex. *Annu Rev Neurosci* 1986; 9:357-81
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=3085570
46. Joel D and Weiner I. The connections of the primate subthalamic nucleus: indirect pathways and the open-interconnected scheme of basal ganglia-thalamocortical circuitry. *Brain Res Brain Res Rev* 1997; 23:62-78
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9063587
47. Deng YP, Lei WL and Reiner A. Differential perikaryal localization in rats of D1 and D2 dopamine receptors on striatal projection neuron types identified by retrograde labeling. *J Chem Neuroanat* 2006; 32:101-16
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16914290
48. Obeso JA, Rodriguez-Oroz MC, Rodriguez M, et al. Pathophysiologic basis of surgery for Parkinson's disease. *Neurology* 2000; 55:S7-12
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11188978

LITERATUR

49. Thanvi BR and Lo TC. Long term motor complications of levodopa: clinical features, mechanisms, and management strategies. *Postgrad Med J* 2004; 80:452-8
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15299154
50. Rascol O, Payoux P, Ory F, Ferreira JJ, Brefel-Courbon C and Montastruc JL. Limitations of current Parkinson's disease therapy. *Ann Neurol* 2003; 53 Suppl 3:S3-12; discussion S12-5
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12666094
51. Deuschl G, Wenzelburger R, Kopper F and Volkmann J. Deep brain stimulation of the subthalamic nucleus for Parkinson's disease: a therapy approaching evidence-based standards. *J Neurol* 2003; 250 Suppl 1:143-6
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12761636
52. Fraix V, Pollak P, Van Blercom N, et al. Effect of subthalamic nucleus stimulation on levodopa-induced dyskinesia in Parkinson's disease. *2000. Neurology* 2001; 57:S60-2
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11775603
53. Deuschl G, Raethjen J, Baron R, Lindemann M, Wilms H and Krack P. The pathophysiology of parkinsonian tremor: a review. *J Neurol* 2000; 247 Suppl 5:V33-48
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11081802
54. Meyers R. A surgical procedure for the alleviation of postencephalic tremor with notes on the physiology of the tremor fibres. *Arch Neurol Psychiat* 1940; 44:455-459
55. Laitinen LV, Bergenheim AT and Hariz MI. Ventroposterolateral pallidotomy can abolish all parkinsonian symptoms. *Stereotact Funct Neurosurg* 1992; 58:14-21
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=1439331
56. Goetz CG and Diederich NJ. There is a renaissance of interest in pallidotomy for Parkinson's disease. *Nat Med* 1996; 2:510-4
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=8616702
57. Limousin P, Pollak P, Benazzouz A, et al. Effect of parkinsonian signs and symptoms of bilateral subthalamic nucleus stimulation. *Lancet* 1995; 345:91-5
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=7815888
58. Siegfried J and Lippitz B. Bilateral chronic electrostimulation of ventroposterolateral pallidum: a new therapeutic approach for alleviating all parkinsonian symptoms. *Neurosurgery* 1994; 35:1126-9; discussion 1129-30
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=7885558

LITERATUR

59. Volkmann J, Allert N, Voges J, Weiss PH, Freund HJ and Sturm V. Safety and efficacy of pallidal or subthalamic nucleus stimulation in advanced PD. *Neurology* 2001; 56:548-51
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11222806
60. Krack P, Benazzouz A, Pollak P, et al. Treatment of tremor in Parkinson's disease by subthalamic nucleus stimulation. *Mov Disord* 1998; 13:907-14
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9827614
61. Hilker R, Voges J, Weisenbach S, et al. Subthalamic nucleus stimulation restores glucose metabolism in associative and limbic cortices and in cerebellum: evidence from a FDG-PET study in advanced Parkinson's disease. *J Cereb Blood Flow Metab* 2004; 24:7-16
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=14688612
62. Limousin P, Greene J, Pollak P, Rothwell J, Benabid AL and Frackowiak R. Changes in cerebral activity pattern due to subthalamic nucleus or internal pallidum stimulation in Parkinson's disease. *Ann Neurol* 1997; 42:283-91
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9307248
63. Rodriguez-Oroz MC, Obeso JA, Lang AE, et al. Bilateral deep brain stimulation in Parkinson's disease: a multicentre study with 4 years follow-up. *Brain* 2005; 128:2240-9
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15975946
64. Schupbach WM, Chastan N, Welter ML, et al. Stimulation of the subthalamic nucleus in Parkinson's disease: a 5 year follow up. *J Neurol Neurosurg Psychiatry* 2005; 76:1640-4
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16291886
65. Rizzone M, Lanotte M, Bergamasco B, et al. Deep brain stimulation of the subthalamic nucleus in Parkinson's disease: effects of variation in stimulation parameters. *J Neurol Neurosurg Psychiatry* 2001; 71:215-9
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11459896
66. Schaltenbrand G and Wahren W. Atlas for Stereotaxy of the Human Brain. Georg Thieme Verlag, 1977
67. Hariz MI, Johansson F, Shamsgovara P, Johansson E, Hariz GM and Fagerlund M. Bilateral subthalamic nucleus stimulation in a parkinsonian patient with preoperative deficits in speech and cognition: persistent improvement in mobility but increased dependency: a case study. *Mov Disord* 2000; 15:136-9
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10634253

LITERATUR

68. Klostermann F, Vesper J and Curio G. Identification of target areas for deep brain stimulation in human basal ganglia substructures based on median nerve sensory evoked potential criteria. *J Neurol Neurosurg Psychiatry* 2003; 74:1031-5
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12876229
69. Tornqvist AL, Schalen L and Rehnström S. Effects of different electrical parameter settings on the intelligibility of speech in patients with Parkinson's disease treated with subthalamic deep brain stimulation. *Mov Disord* 2005; 20:416-23
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15593314
70. Vesper J, Klostermann F, Stockhammer F, Funk T and Brock M. Results of chronic subthalamic nucleus stimulation for Parkinson's disease: a 1-year follow-up study. *Surg Neurol* 2002; 57:306-11; discussion 311-3
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12128300
71. Benabid AL, Pollak P, Gervason C, et al. Long-term suppression of tremor by chronic stimulation of the ventral intermediate thalamic nucleus. *Lancet* 1991; 337:403-6
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=1671433
72. Tagliati M, Shils J, Sun C and Alterman R. Deep brain stimulation for dystonia. *Expert Rev Med Devices* 2004; 1:33-41
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16293008
73. Benabid AL, Benazzouz A, Hoffmann D, Limousin P, Krack P and Pollak P. Long-term electrical inhibition of deep brain targets in movement disorders. *Mov Disord* 1998; 13 Suppl 3:119-25
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9827607
74. Dujardin K, Defebvre L, Krystkowiak P, Blond S and Destee A. Influence of chronic bilateral stimulation of the subthalamic nucleus on cognitive function in Parkinson's disease. *J Neurol* 2001; 248:603-11
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11518003
75. Moro E, Scerrati M, Romito LM, Roselli R, Tonali P and Albanese A. Chronic subthalamic nucleus stimulation reduces medication requirements in Parkinson's disease. *Neurology* 1999; 53:85-90
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10408541
76. Hamani C, Saint-Cyr JA, Fraser J, Kaplitt M and Lozano AM. The subthalamic nucleus in the context of movement disorders. *Brain* 2004; 127:4-20
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=14607789

LITERATUR

77. Hashimoto T, Elder CM, Okun MS, Patrick SK and Vitek JL. Stimulation of the subthalamic nucleus changes the firing pattern of pallidal neurons. *J Neurosci* 2003; 23:1916-23
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12629196
78. Benazzouz A and Hallett M. Mechanism of action of deep brain stimulation. *Neurology* 2000; 55:S13-6
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11188968
79. Beurrier C, Bioulac B, Audin J and Hammond C. High-frequency stimulation produces a transient blockade of voltage-gated currents in subthalamic neurons. *J Neurophysiol* 2001; 85:1351-6
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11287459
80. Dostrovsky JO, Levy R, Wu JP, Hutchison WD, Tasker RR and Lozano AM. Microstimulation-induced inhibition of neuronal firing in human globus pallidus. *J Neurophysiol* 2000; 84:570-4
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10899228
81. Carella F, Genitrini S, Bressanelli M, et al. Acute effects of bilateral subthalamic nucleus stimulation on clinical and kinematic parameters in Parkinson's disease. *Mov Disord* 2001; 16:651-5
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11481688
82. Lopiano L, Rizzone M, Bergamasco B, et al. Deep brain stimulation of the subthalamic nucleus: clinical effectiveness and safety. *Neurology* 2001; 56:552-4
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11222807
83. Rodriguez-Oroz MC, Zamarbide I, Guridi J, Palmero MR and Obeso JA. Efficacy of deep brain stimulation of the subthalamic nucleus in Parkinson's disease 4 years after surgery: double blind and open label evaluation. *J Neurol Neurosurg Psychiatry* 2004; 75:1382-5
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15377681
84. Limousin P, Krack P, Pollak P, et al. Electrical stimulation of the subthalamic nucleus in advanced Parkinson's disease. *N Engl J Med* 1998; 339:1105-11
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9770557
85. Beric A, Kelly PJ, Rezai A, et al. Complications of deep brain stimulation surgery. *Stereotact Funct Neurosurg* 2001; 77:73-8
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12378060

LITERATUR

86. Ardouin C, Pillon B, Peiffer E, et al. Bilateral subthalamic or pallidal stimulation for Parkinson's disease affects neither memory nor executive functions: a consecutive series of 62 patients. *Ann Neurol* 1999; 46:217-23
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10443887
87. Trepanier LL, Kumar R, Lozano AM, Lang AE and Saint-Cyr JA. Neuropsychological outcome of GPi pallidotomy and GPi or STN deep brain stimulation in Parkinson's disease. *Brain Cogn* 2000; 42:324-47
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10753483
88. Mayberg HS and Lozano AM. Penfield revisited? Understanding and modifying behavior by deep brain stimulation for PD. *Neurology* 2002; 59:1298-9
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12427872
89. Kumar R, Lozano AM, Sime E, Halket E and Lang AE. Comparative effects of unilateral and bilateral subthalamic nucleus deep brain stimulation. *Neurology* 1999; 53:561-6
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10449121
90. Deutsche Gesellschaft für Neurologie (DGN): Leitlinien: Therapie neurogener Sprech- und Stimmstörungen (Dysarthrie/Dysarthrophonie). (Accessed: August 4, 2006, at <http://www.dgn.org>)
91. Vogel M, Ziegler W and Morasch H. Sprechen. In von Cramon D and Zihl J, eds. *Neuropsychologische Rehabilitation*. Springer Verlag Berlin Heidelberg: Springer Verlag Berlin, 1988:319-359
92. WorldHealthOrganization. *International Classification of Impairments, Disabilities and Handicaps: A Manual of Classification Relating to the Consequences of Disease*. Genf: World Health Organization, 1980
93. Yorkston KM, Strand EA and Kennedy MRT. Comprehensibility of Dysarthric Speech: Implications for Assessment and Treatment Planning. *Am J Speech Lang Pathol* 1996; 5:55-66
<http://ajslp.asha.org/cgi/content/abstract/5/1/55>
94. Schroter-Morasch H and Ziegler W. [Speech dysfunction. Reconstructive procedures in speech dysfunction (dysarthria, dysglossia)]. *Laryngorhinootologie* 2005; 84 Suppl 1:S213-20
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15846553
95. Pinto S, Gentil M, Krack P, et al. Changes induced by levodopa and subthalamic nucleus stimulation on parkinsonian speech. *Mov Disord* 2005; 20:1507-15
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16037917
96. Riecker A, Mathiak K, Wildgruber D, et al. fMRI reveals two distinct cerebral networks subserving speech motor control. *Neurology* 2005; 64:700-6

LITERATUR

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15728295

97. Pinto S, Thobois S, Costes N, et al. Subthalamic nucleus stimulation and dysarthria in Parkinson's disease: a PET study. *Brain* 2004; 127:602-15

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=14736753

98. Kerschman K, Pankl W and Auff E. [Speech disorders in Parkinson patients]. *Wien Klin Wochenschr* 1998; 110:279-86

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9615959

99. Metter EJ and Hanson WR. Clinical and acoustical variability in hypokinetic dysarthria. *J Commun Disord* 1986; 19:347-66

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=3490498

100. Schulz GM. The effects of speech therapy and pharmacological treatments on voice and speech in Parkinson's disease: a review of the literature. *Curr Med Chem* 2002; 9:1359-66

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12132992

101. Biesalski P and Frank F. *Phoniatrie-Pädaudiologie*. Stuttgart, New York: Thieme Verlag, 1994

102. Gamboa J, Jimenez-Jimenez FJ, Nieto A, et al. Acoustic voice analysis in patients with Parkinson's disease treated with dopaminergic drugs. *J Voice* 1997; 11:314-20

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9297676

103. Gerthsen C. Töne und Klänge. In Vogel H, eds. *Gerthsen Physik*. Springer-Verlag Berlin, Heidelberg: Springer-Verlag, 1995:191-192

104. Sapir S, Pawlas A, Ramig LO, et al. Voice and speech abnormalities in Parkinsonian disease: Relation to severity of motor impairment, duration of disease, medication, depression, gender and age. *Journal of Medical Speech Language Pathology* 2001; 9:213-226

<http://www.ncvs.org/ncvs/info/rescol/progreport/abs14/14-18.html>

105. Hammen VL and Yorkston KM. Speech and pause characteristics following speech rate reduction in hypokinetic dysarthria. *J Commun Disord* 1996; 29:429-44; quiz 444-5

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=8956101

106. Tjaden K. A preliminary study of factors influencing perception of articulatory rate in Parkinson disease. *J Speech Lang Hear Res* 2000; 43:997-1010

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11386485

LITERATUR

107. Ackermann H, Konczak J and Hertrich I. The temporal control of repetitive articulatory movements in Parkinson's disease. *Brain Lang* 1997; 56:312-9
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9027377
108. Canter GJ. Speech Characteristics of Patients with Parkinson's Disease: I. Intensity, Pitch, and Duration. *J Speech Hear Disord* 1963; 28:221-9
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=14048984
109. Ho AK, Bradshaw JL, Cunnington R, Phillips JG and Iansek R. Sequence heterogeneity in Parkinsonian speech. *Brain Lang* 1998; 64:122-45
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9675046
110. Kent RD, Weismer G, Kent JF, Vorperian HK and Duffy JR. Acoustic studies of dysarthric speech: methods, progress, and potential. *J Commun Disord* 1999; 32:141-80, 183-6; quiz 181-3, 187-9
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10382143
111. Kompoliti K, Wang QE, Goetz CG, Leurgans S and Raman R. Effects of central dopaminergic stimulation by apomorphine on speech in Parkinson's disease. *Neurology* 2000; 54:458-62
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10668714
112. Böhme G. Sprach-, Sprech-, Stimm- und Schluckstörungen. Stuttgart: Gustav Fischer Verlag, 1997
113. Perez KS, Ramig LO, Smith ME and Dromey C. The Parkinson larynx: tremor and videostroboscopic findings. *J Voice* 1996; 10:354-61
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=8943139
114. Heinemann M. Stimmlippen-Schwingungsanalyse. In Naumann HH, eds. *Oto-Rhino-Laryngologie in Klinik und Praxis*. Georg Thieme Verlag Stuttgart: Georg Thieme Verlag, 1995:320-325
115. Wirth G. Sprachstörungen, Sprechstörungen, kindliche Hörstörungen. Köln: Deutscher Ärzte-Verlag, 1994
116. Sanabria J, Ruiz PG, Gutierrez R, et al. The effect of levodopa on vocal function in Parkinson's disease. *Clin Neuropharmacol* 2001; 24:99-102
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11307045
117. Pinto S, Gentil M, Fraix V, Benabid AL and Pollak P. Bilateral subthalamic stimulation effects on oral force control in Parkinson's disease. *J Neurol* 2003; 250:179-87

LITERATUR

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12574948

118. Grandas F, Galiano ML and Tabernero C. Risk factors for levodopa-induced dyskinesias in Parkinson's disease. *J Neurol* 1999; 246:1127-33

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10653303

119. Krack P, Batir A, Van Blercom N, et al. Five-year follow-up of bilateral stimulation of the subthalamic nucleus in advanced Parkinson's disease. *N Engl J Med* 2003; 349:1925-34

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=14614167

120. Murdoch BE. Subcortical brain mechanisms in speech and language. *Folia Phoniatr Logop* 2001; 53:233-51

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11464066

121. Simmons KC and Mayo R. The use of the Mayo Clinic system for differential diagnosis of dysarthria. *J Commun Disord* 1997; 30:117-31; quiz 131-2

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9100127

122. Böhme G and Gross M. *Stroboskopie*. Heidelberg: Median Verlag, 2001

123. KayElemetrics. operations manual CSL computerized speech lab model 4300 software version 4.x. Pine Brook, NJ: Kay Elemetrics Corp., 1992

124. Bielamowicz S, Kreiman J, Gerratt BR, Dauer MS and Berke GS. Comparison of voice analysis systems for perturbation measurement. *J Speech Hear Res* 1996; 39:126-34

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=8820704

125. Parsa V and Jamieson DG. Acoustic discrimination of pathological voice: sustained vowels versus continuous speech. *J Speech Lang Hear Res* 2001; 44:327-39

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11324655

126. Gröne B. Physiologische, aerodynamische und akustische Verfahren in der Dysarthriediagnostik. In Schrey-Dern D, eds. *Dysarthrie*. Georg Thieme Verlag - Forum Logopädie Stuttgart: Georg Thieme Verlag - Forum Logopädie, 2002:73-98

127. Jiang J, Lin E, Wang J and Hanson DG. Glottographic measures before and after levodopa treatment in Parkinson's disease. *Laryngoscope* 1999; 109:1287-94

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10443835

128. Pfitzinger HR. *Phonetische Analyse der Sprechgeschwindigkeit*. Institut für Phonetik und Sprachliche Kommunikation, München, 2001 (Accessed: 2001, at <http://www.phonetik.uni-muenchen.de/~hpt/>)

LITERATUR

129. Meyerscout2002. Definition 'Silbe'. Mannheim, Meyers Lexikonverlag Bibliographisches Institut & F. A. Brockhaus AG, 2001

130. Baker KK, Ramig LO, Johnson AB and Freed CR. Preliminary voice and speech analysis following fetal dopamine transplants in 5 individuals with Parkinson disease. *J Speech Lang Hear Res* 1997; 40:615-26

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9210118

131. Siupsinskiene N. Quantitative analysis of professionally trained versus untrained voices. *Medicina (Kaunas)* 2003; 39:36-46

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12576764

132. Saint-Cyr JA, Trepanier LL, Kumar R, Lozano AM and Lang AE. Neuropsychological consequences of chronic bilateral stimulation of the subthalamic nucleus in Parkinson's disease. *Brain* 2000; 123 (Pt 10):2091-108

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11004126

133. von Cramon D. Prognostische Faktoren. In von Cramon D and Zihl J, eds. *Neuropsychologische Rehabilitation*. Springer Verlag Berlin Heidelberg: Springer Verlag Berlin, 1988:21-39

134. Farrell A, Theodoros D, Ward E, Hall B and Silburn P. Effects of neurosurgical management of Parkinson's disease on speech characteristics and oromotor function. *J Speech Lang Hear Res* 2005; 48:5-20

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15934446

135. Woods SP, Fields JA and Troster AI. Neuropsychological sequelae of subthalamic nucleus deep brain stimulation in Parkinson's disease: a critical review. *Neuropsychol Rev* 2002; 12:111-26

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12371602

136. Spencer KA and Rogers MA. Speech motor programming in hypokinetic and ataxic dysarthria. *Brain Lang* 2005; 94:347-66

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16098382

137. Schröter-Morasch H. Beurteilung der Sprechorgane und ihrer sensomotrischen Funktionen. In Springer L and Schrey-Dern D, eds. *Dysarthrie*. Georg Thieme Verlag - Forum Logopädie Stuttgart: Georg Thieme Verlag - Forum Logopädie, 2002:53-72

138. Butson CR, Moks CB and McIntyre CC. Sources and effects of electrode impedance during deep brain stimulation. *Clin Neurophysiol* 2006; 117:447-54

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16376143

LITERATUR

139. McIntyre CC, Mori S, Sherman DL, Thakor NV and Vitek JL. Electric field and stimulating influence generated by deep brain stimulation of the subthalamic nucleus. *Clin Neurophysiol* 2004; 115:589-95
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=15036055
140. Kolmac CI, Power BD and Mitrofanis J. Patterns of connections between zona incerta and brainstem in rats. *J Comp Neurol* 1998; 396:544-55
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9651011
141. Quagliari CE and Celesia GG. Effect of thalamotomy and levodopa therapy on the speech of Parkinson patients. *Eur Neurol* 1977; 15:34-9
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=852463
142. Temperli P, Ghika J, Villemure JG, Burkhard PR, Bogousslavsky J and Vingerhoets FJ. How do parkinsonian signs return after discontinuation of subthalamic DBS? *Neurology* 2003; 60:78-81
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12525722
143. Hariz MI. Current controversies in pallidal surgery. *Adv Neurol* 1999; 80:593-602
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10410776