

References for Stroke

Barthel Index

- Mahoney FI, Barthel DW. (1965). Functional evaluation: The Barthel Index. Maryland State Med. Jl., 14:61-65.
- Korner-Bitensky N, Wood-Dauphinee. (1995). Barthel index information elicited over the telephone: Is it reliable? Am Jl. Phys. Med. Rehabil., 74:9-18.
- Wolfe CDA, Taub NA, Woodrow BA, et al. (1991). Assessment of scales of disability and handicap for stroke patients. Stroke, 22:1242-1244.

Depression Scales

- Johnson G, Burvill PW, Anderson CS, et al. (1995). Screening instruments for depression and anxiety following stroke: Experience in the Perth community stroke study. Acta Psychiatr. Scand., 91:252-257.
- Schubert D, Burnes R, Paras W, et al. (1992). Decrease of depression during stroke and amputation rehabilitation. General Hosp. Psychiatry, 14:135-141.

McMaster Family Assessment Device

- Epstein NB, Baldwin LM, Bishop DS. (1983). The McMaster Family Assessment Device. Journal of Marital and Family Therapy, 9(2):171-180.
- Miller IW, Bishop DS, Epstein NB, Keitner GI. (1985). The McMaster Family assessment device: reliability and validity. Journal of Marital and Family Therapy, 11(4):345-356.

Fugl-Meyer Stroke Assessment

- Duncan PW, Propst M, Nelson SG. (1983). Reliability of the Fugl- Meyer Assessment of sensorimotor recovery following cerebrovascular accident. Physical Therapy, 63, 1606-1610.
- Fugl-Meyer AR (1980). Post-stroke hemiplegia assessment of physical properties. Scandinavian Journal of Rehabilitation Medicine, 7, 85-93.

Glasgow Coma Scale

- Hall K, Cope N, Rappaport M (1985). Glasgow outcome scale: Comparative usefulness in following recovery in traumatic head injury. *Archives of Physical Medicine and Rehabilitation*, 66: 35-37.
- Jennett B, et al. (1979). Prognosis of patients with severe head injury. *Neurosurgery*, 4:283-289.
- Jennett B, Teasdale G (1977). Aspects of coma after severe head injury. *The Lancet*, 1:878-881.
- Teasdale G, Jennett B. (1974). Assessment of coma and impaired consciousness. *The Lancet*, 2:81-83.

Instrumental Activities of Daily Living

- Holbrook M, Skilbeck CE. (1983). An activities index for use with stroke patients. *Age and Ageing*, 12,166-170.
- Lawton MP. (1988). Instrumental Activities of Daily Living (IADL) Scale: Original Observer-Rated Version. *Psychopharmacology Bulletin*, 24, 785-787.
- Lawton MP, Brody EM. (1969). Assessment of older people: self- monitoring and instrumental activities of daily living. *Gerontologist*, 9. 179-186.
- Schuling J, de Haan R, Limburg M, Groenier KH. (1993). The Frenchay Activitie Index: Assessment of Functional Status in Stroke Patients. *Stroke*, 24, 1173-1177.

Mental Status

- Dick JPR, Guiloff RJ, et al. (1984). Mini-mental state examination in neurological patients. *J Neuro. Neurosurg. Psych.*,47:496-499.
- Folstein MF, Folstein SE, McHugh PR. (1975). Mini-mental state. *J Psychiat. Res.*, 12:189-198.
- Kiernan RJ, Mueller J, Langston JW, Van Dyke C. (1987). The neurobehavioral cognitive screening examination: Comparison with the Cognitive Capacity Screening Examination and the Mini-Mental State Examination in a neurosurgical population. *Ann. Inter. Med.*, 107:486-491.
- Schwamm LH, Van Dyke C, Kiernan RJ, et al. (1987). The neurobehavioral cognitive screening examination: A brief but quantitative approach to cognitive assessment. *Ann Inter. Med.*, 107:481-485.

Motor Assessment Scale (MAS)

- Carr JH, Sheperd RB, Nordholm L, Lynne D. (1985). Investigation of a new motor assessment scale for stroke patients. *Physical Therapy*, 65(2):175-180.
- Loewen SC, Anderson BA. (1988). Reliability of the Modified Motor Assessment Scale and the Barthel Index. *Physical Therapy*, 68: 1077-1081.
- Poole JL, Whitney SL. (1988). Motor Assessment scale for stroke patients: Concurrent validity and interrater reliability. *Archives of Physical Medicine and Rehabilitation*, Mar:195- 197.

Rankin Scale

- Rankin J. (1957). Cerebral vascular accidents in patients over the age of 60: II. Prognosis. *Scot. Med. J.*, 2:200-215.
- De Haan R, Limberg, Bossuyt P, et al. (1995). The clinical meaning of Rankin "handicap" grades after stroke. *Stroke*, 26: 2027-2030.
- Van Swieten JC, Koudstaal PJ, Visser MC, et al. (1988). Intraobserver agreement for the assessment of handicap in stroke patients. *Stroke*, 19: 604-607.

Sickness Impact Profile (SIP)

- Bergner M, Bobbitt RA, Carter WB, Gilson BS. (1981). The Sickness Impact Profile: Development and final revision of a health status measure. *Medical Care*, 19:787-805.
- MacKenzie CR, Charlson ME, Digioia D, et al. (1986). Can the Sickness Impact Profile Measure Change? An example of scale assessment. *Journal of Chronic Disability*, 39:429-438.

Standardized Assessments

- Cole B, Finch E, Gowland C, Mayo N. (1994). *Physical Rehabilitation Outcome Measures*. Toronto: Canadian Physiotherapy Association.
- Gowland C. (1991). Standardized Physical Therapy Measurements for Assessing Impairment and Disability Following Stroke. *Neurology Report*, 15,9-14.
- Johnston, MV, Keith, RA, Hinderer, SR. (1992). Measurement Standards for Interdisciplinary Medical Rehabilitation. *Archives of Physical Medicine and Rehabilitation*, 73, S3- S23.

- Podsiadlo D, Richardson S. (1991). The Timed "Up & Go:" A test of basic functional mobility for frail elderly persons. *Journal of American Geriatrics Society*, 39,142-148.
- Reuben DB, Siu AL. (1990). An objective measure of physical function of elderly outpatients: The physical performance test. *Journal of American Geriatrics Society*, 38,1105-1112.
- Rothstein J, Echternach J. (1993). Primer on Measurement: An Introductory Guide to Measurement Issues. Alexandria, VA: American Physical Therapy Association.
- Rothstein J. (1985). Measurement in Physical Therapy. New York: Churchill Livingstone.
- Rothstein J.(Ed.). (1994). Special issue: Physical disability, *Physical Therapy*, 74.
- Wade DT. (1992). Measurement in Neurological Rehabilitation. New York: Oxford University Press.
- World Health Organization (WHO). (1980). International Classification of Impairments, Disabilities and Handicaps. Geneva, World Health Organization.

Stroke Deficit Scales

- Brott T, Adams HP, Olinger CP, et al. (1989). Measurements of acute cerebral infarction: A clinical examination scale. *Stroke*, 20(7): 864-870.
- Cote R, Battista RN, Wofson C, Boucher J, Adam J, Hachinski V. (1989). The Canadian Neurological Scale: Validation and Reliability Assessment. *Neurology*, 39: 638-43.
- Cote R, Hachinski VC, Shurvell BL, Norris JW, Wolfson C. (1986). The Canadian Neurological Scale: A preliminary study in acute stroke. *Stroke*, 17:731-7.
- Goldstein LB, Bertels C, Davis JN. (1989). Interrater reliability of the NIH stroke scale. *Archives of Neurology*, 46(6):660-2.
- Wityk RJ, Pessin MS, Kaplan RF, Caplan LR. (1994). Serial assessment of acute stroke using the NIH stroke scale. *Stroke*, 25(2):362-365.

Stroke Guidelines

- Giuliani CA. Understanding AHCPR clinical practice guideline No. 16: Post-stroke rehabilitation. (1995). PT: Magazine of Physical Therapy, October:51-82.
- The Agency for Health Care Policy and Research published the Post-Stroke Rehabilitation Guidelines in 1995 and they are available at the following address:

SF 36

- Ware JE. (1994). SF-36 Physical and mental health summary scales: A user's manual. The Health Institute, New England Medical Center. Boston, MA.

U.S. Department of Health and Human Services

Public Health Service
Agency for Health Care Policy and Research
Executive Office Center, Suite 501
2101 East Jefferson Street
Rockville, MD 20852

These are some of the more current references available that you could use to improve your care of the patient who has had a stroke

Stroke Related References

- Neurology Section Special Topic Issue - Stroke. (1991). *Neurology Report*, 15(1).
- Ada, L., Canning, C. G., & Low, S. L. (2003). Stroke patients have selective muscle weakness in shortened range. *Brain*, 126(Pt 3), 724-731.
- Ada, L., Dean, C. M., Hall, J. M., Bampton, J., & Crompton, S. (2003). A treadmill and overground walking program improves walking in persons residing in the community after stroke: a placebo-controlled, randomized trial. *Arch Phys Med Rehabil*, 84(10), 1486-1491.
- Ada, L., Vattanslip, W., Dwyer, N. O., & Crosbie. (1999). Does Spasticity Contribute to Walking Dysfunction after Stroke? . *Journal of Neurology, Neurosurgery and Psychiatry*, 64(5), 628-635.
- Aisen, M. L., Krebs, H. I., Hogan, N., McDowell, F., & Volpe, B. T. (1997). The effect of robot-assisted therapy and rehabilitative training on motor recovery following stroke. *Arch Neurol*, 54(4), 443-446.
- Alexander, H., Bugge, C., & Hagen, S. (2001). What is the association between the different components of stroke rehabilitation and health outcomes? *Clin Rehabil*, 15(2), 207-215.
- Appelros, P., Karlsson, G. M., Thorwalls, A., Tham, K., & Nydevik, I. (2004). Unilateral neglect: further validation of the baking tray task. *J Rehabil Med*, 36(6), 258-261.
- Askim, T., Rohweder, G., Lydersen, S., & Indredavik, B. (2004). Evaluation of an extended stroke unit service with early supported discharge for patients living in a rural community. A randomized controlled trial. *Clin Rehabil*, 18(3), 238-248.
- Aycock, D. M., Blanton, S., Clark, P. C., & Wolf, S. L. (2004). What is constraint-induced therapy? *Rehabil Nurs*, 29(4), 114-115, 121.
- Azzimondi, G., Bassein, L., Fiorani, L., Nonino, F., Montaguti, U., Celin, D., et al. (1997). Variables associated with hospital arrival time after stroke: effect of delay on the clinical efficiency of early treatment. *Stroke*, 28(3), 537-542.
- Baer, H. R., & Wolf, S. L. (2001). Modified emory functional ambulation profile: an outcome measure for the rehabilitation of poststroke gait dysfunction. *Stroke*, 32(4), 973-979.
- Barbeau, H., & Visintin, M. (2003). Optimal outcomes obtained with body-weight support combined with treadmill training in stroke subjects. *Arch Phys Med Rehabil*, 84(10), 1458-1465.
- Barclay-Goddard, R., Stevenson, T., Poluha, W., Moffatt, M. E., & Taback, S. P. (2004). Force platform feedback for standing balance training after stroke. *Cochrane Database Syst Rev*(4), CD004129.
- Baskett, J. J., Broad, J. B., Reekie, G., Hocking, C., & Green, G. (1999). Shared responsibility for ongoing rehabilitation: a new approach to home-based therapy after stroke. *Clin Rehabil*, 13(1), 23-33.
- Baskett, J. J., Marshall, H. J., Broad, J. B., Owen, P. H., & Green, G. (1996). The good side after stroke: ipsilateral sensory-motor function needs careful assessment. *Age Ageing*, 25(3), 239-244.
- Bassile, C. C., Dean, C., Boden-Albala, B., & Sacco, R. (2003). Obstacle training programme for individuals post stroke: feasibility study. *Clin Rehabil*, 17(2), 130-136.

- Bates, B. E., & Stineman, M. G. (2000). Outcome indicators for stroke: application of an algorithm treatment across the continuum of postacute rehabilitation services. *Arch Phys Med Rehabil*, 81(11), 1468-1478.
- Bayat, R., Barbeau, H., & Lamontagne, A. (2005). Speed and temporal-distance adaptations during treadmill and overground walking following stroke. *Neurorehabil Neural Repair*, 19(2), 115-124.
- Bayona, N. A., Bitensky, J., Salter, K., & Teasell, R. (2005). The role of task-specific training in rehabilitation therapies. *Top Stroke Rehabil*, 12(3), 58-65.
- Beer, R. F., Dewald, J. P., & Rymer, W. Z. (2000). Deficits in the coordination of multijoint arm movements in patients with hemiparesis: evidence for disturbed control of limb dynamics. *Exp Brain Res*, 131(3), 305-319.
- Beer, R. F., Given, J. D., & Dewald, J. P. (1999). Task-dependent weakness at the elbow in patients with hemiparesis. *Arch Phys Med Rehabil*, 80(7), 766-772.
- Beis, J. M., Keller, C., Morin, N., Bartolomeo, P., Bernati, T., Chokron, S., et al. (2004). Right spatial neglect after left hemisphere stroke: qualitative and quantitative study. *Neurology*, 63(9), 1600-1605.
- Benevento, A. (1998). Successful outcomes in stroke following forced use: what are the contributing factors? *Occupational Therapy in Health Care*, 11(2), 59-76.
- Blackburn, M., van Vliet, P., & Mockett, S. P. (2002). Reliability of measurements obtained with the modified Ashworth scale in the lower extremities of people with stroke. *Phys Ther*, 82(1), 25-34.
- Black-Schaffer, R. M., & Winston, C. (2004). Age and functional outcome after stroke. *Top Stroke Rehabil*, 11(2), 23-32.
- Blanton, S., & Wolf, S. L. (1999). An application of upper-extremity constraint-induced movement therapy in a patient with subacute stroke. *Phys Ther*, 79(9), 847-853.
- Blennerhassett, J., & Dite, W. (2004). Additional task-related practice improves mobility and upper limb function early after stroke: a randomised controlled trial. *Aust J Physiotherapy*, 50(4), 219-224.
- Bogataj, U., Gros, N., Kljajic, M., Acimovic, R., & Malezic, M. (1995). The rehabilitation of gait in patients with hemiplegia: a comparison between conventional therapy and multichannel functional electrical stimulation therapy. *Phys Ther*, 75(6), 490-502.
- Bohannon, R. W. (1991). Strength deficits also predict gait performance in patients with stroke. *Percept Mot Skills*, 73(1), 146.
- Bohannon, R. W. (1997). Strength associated motor deficits following stroke. *Percept Mot Skills*, 84(2), 393-394.
- Bohannon, R. W., Larkin, P. A., Smith, M. B., & Horton, M. G. (1987). Relationship between static muscle strength deficits and spasticity in stroke patients with hemiparesis. *Phys Ther*, 67(7), 1068-1071.
- Bohannon, R. W., & Smith, M. B. (1987). Assessment of strength deficits in eight paretic upper extremity muscle groups of stroke patients with hemiplegia. *Phys Ther*, 67(4), 522-525.
- Bohannon, R. W., & Smith, M. B. (1987). Upper extremity strength deficits in hemiplegic stroke patients: relationship between admission and discharge assessment and time since onset. *Arch Phys Med Rehabil*, 68(3), 155-157.

- Bonifer, N., & Anderson, K. M. (2003). Application of constraint-induced movement therapy for an individual with severe chronic upper-extremity hemiplegia. *Phys Ther*, 83(4), 384-398.
- Bonifer, N. M., Anderson, K. M., & Arciniegas, D. B. (2005). Constraint-induced movement therapy after stroke: efficacy for patients with minimal upper-extremity motor ability. *Arch Phys Med Rehabil*, 86(9), 1867-1873.
- Bonifer, N. M., Anderson, K. M., & Arciniegas, D. B. (2005). Constraint-induced therapy for moderate chronic upper extremity impairment after stroke. *Brain Inj*, 19(5), 323-330.
- Bourbonnais, D., & Vanden Noven, S. (1989). Weakness in patients with hemiparesis. *Am J Occup Ther*, 43(5), 313-319.
- Bowen, A., Wenman, R., Mickelborough, J., Foster, J., Hill, E., & Tallis, R. (2001). Dual-task effects of talking while walking on velocity and balance following a stroke. *Age Ageing*, 30(4), 319-323.
- Boyd, L. A., & Winstein, C. J. (2001). Implicit motor-sequence learning in humans following unilateral stroke: the impact of practice and explicit knowledge. *Neurosci Lett*, 298(1), 65-69.
- Boyd, L. A., & Winstein, C. J. (2003). Impact of explicit information on implicit motor-sequence learning following middle cerebral artery stroke. *Phys Ther*, 83(11), 976-989.
- Boyd, L. A., & Winstein, C. J. (2004). Cerebellar stroke impairs temporal but not spatial accuracy during implicit motor learning. *Neurorehabil Neural Repair*, 18(3), 134-143.
- Broetz, D., Johannsen, L., & Karnath, H. O. (2004). Time course of 'pusher syndrome' under visual feedback treatment. *Physiother Res Int*, 9(3), 138-143.
- Broetz, D., & Karnath, H. O. (2005). New aspects for the physiotherapy of pushing behaviour. *NeuroRehabilitation*, 20(2), 133-138.
- Brosseau, L., Philippe, P., Potvin, L., & Boulanger, Y. L. (1996). Post-stroke inpatient rehabilitation. I. Predicting length of stay. *Am J Phys Med Rehabil*, 75(6), 422-430.
- Brosseau, L., Potvin, L., Philippe, P., & Boulanger, Y. L. (1996). Post-stroke inpatient rehabilitation. II. Predicting discharge disposition. *Am J Phys Med Rehabil*, 75(6), 431-436.
- Brown, A. W., Bjelke, B., & Fuxe, K. (2004). Motor response to amphetamine treatment, task-specific training, and limited motor experience in a postacute animal stroke model. *Exp Neurol*, 190(1), 102-108.
- Brown, D. A., Effgen, S. K., & Palisano, R. J. (1998). Performance following ability-focused physical therapy intervention in individuals with severely limited physical and cognitive abilities. *Phys Ther*, 78(9), 934-947; discussion 948-950.
- Brown, D. A., & Kautz, S. A. (1998). Increased workload enhances force output during pedaling exercise in persons with poststroke hemiplegia. *Stroke*, 29(3), 598-606.
- Burke, D. (1980). Reassessment of the muscle contribution in normal and spastic man. In R. G. Feldman, Youn, R. R., Keolla, W. P. (Ed.), *Spasticity Disordered Motor Control*. Chicago, IL: Yearbook Medical Publishers.
- Byl, N., Roderick, J., Mohamed, O., Hanny, M., Kotler, J., Smith, A., et al. (2003). Effectiveness of sensory and motor rehabilitation of the upper limb following the

- principles of neuroplasticity: patients stable poststroke. *Neurorehabil Neural Repair*, 17(3), 176-191.
- Cambier, D. C., De Corte, E., Danneels, L. A., & Witvrouw, E. E. (2003). Treating sensory impairments in the post-stroke upper limb with intermittent pneumatic compression. Results of a preliminary trial. *Clin Rehabil*, 17(1), 14-20.
- Cammisa, K., Calabrese, D., Myers, M., Tupper, G., Moser, K., Crawford, K., et al. (1995). NDT theory has been updated. *Am J Occup Ther*, 49(2), 176.
- Canning, C. G., Ada, L., & O'Dwyer, N. (1999). Slowness to develop force contributes to weakness after stroke. *Arch Phys Med Rehabil*, 80(1), 66-70.
- Canning, C. G., Ada, L., & O'Dwyer, N. J. (2000). Abnormal muscle activation characteristics associated with loss of dexterity after stroke. *J Neurol Sci*, 176(1), 45-56.
- Carr, J. H., & Shepherd, R. B. (1987). *A Motor Relearning Programme For Stroke* (2nd ed.). Oxford Rockville, Md.: Heinemann Medical Books; Aspen Publishers.
- Cauraugh, J. H., & Kim, S. B. (2003). Stroke motor recovery: active neuromuscular stimulation and repetitive practice schedules. *J Neurol Neurosurg Psychiatry*, 74(11), 1562-1566.
- Cavanaugh, J. T., Schenkman, M. (1998). Physical therapy evaluation and treatment in stroke rehabilitation. *Physical Therapy Case Reports*, 1(4), 200-209.
- Chae, J. (2003). Neuromuscular electrical stimulation for motor relearning in hemiparesis. *Phys Med Rehabil Clin N Am*, 14(1 Suppl), S93-109.
- Chae, J., Bethoux, F., Bohine, T., Dobos, L., Davis, T., & Friedl, A. (1998). Neuromuscular stimulation for upper extremity motor and functional recovery in acute hemiplegia. *Stroke*, 29(5), 975-979.
- Chae, J., Labatia, I., & Yang, G. (2003). Upper limb motor function in hemiparesis: concurrent validity of the Arm Motor Ability test. *Am J Phys Med Rehabil*, 82(1), 1-8.
- Chae, J., & Yu, D. (2000). A critical review of neuromuscular electrical stimulation for treatment of motor dysfunction in hemiplegia. *Assist Technol*, 12(1), 33-49.
- Chae, J., Yu, D. T., Walker, M. E., Kirsteins, A., Elovic, E. P., Flanagan, S. R., et al. (2005). Intramuscular electrical stimulation for hemiplegic shoulder pain: a 12-month follow-up of a multiple-center, randomized clinical trial. *Am J Phys Med Rehabil*, 84(11), 832-842.
- Chae, J., Zorowitz, R. D., & Johnston, M. V. (1996). Functional outcome of hemorrhagic and nonhemorrhagic stroke patients after in-patient rehabilitation. *Am J Phys Med Rehabil*, 75(3), 177-182.
- Chan, D. Y., Chan, C. C., & Au, D. K. (2006). Motor relearning programme for stroke patients: a randomized controlled trial. *Clin Rehabil*, 20(3), 191-200.
- Chen, C. L., Chen, H. C., Tang, S. F., Wu, C. Y., Cheng, P. T., & Hong, W. H. (2003). Gait performance with compensatory adaptations in stroke patients with different degrees of motor recovery. *Am J Phys Med Rehabil*, 82(12), 925-935.
- Chen, C. L., Tang, F. T., Chen, H. C., Chung, C. Y., & Wong, M. K. (2000). Brain lesion size and location: effects on motor recovery and functional outcome in stroke patients. *Arch Phys Med Rehabil*, 81(4), 447-452.

- Chen, G., Patten, C., Kothari, D. H., & Zajac, F. E. (2005). Gait deviations associated with post-stroke hemiparesis: improvement during treadmill walking using weight support, speed, support stiffness, and handrail hold. *Gait Posture*, 22(1), 57-62.
- Chen, J. C., Liang, C. C., & Shaw, F. Z. (2005). Facilitation of sensory and motor recovery by thermal intervention for the hemiplegic upper limb in acute stroke patients: a single-blind randomized clinical trial. *Stroke*, 36(12), 2665-2669.
- Chen, S. C., Chen, Y. L., Chen, C. J., Lai, C. H., Chiang, W. H., & Chen, W. L. (2005). Effects of surface electrical stimulation on the muscle-tendon junction of spastic gastrocnemius in stroke patients. *Disabil Rehabil*, 27(3), 105-110.
- Cheng, P. T., Chen, C. L., Wang, C. M., & Hong, W. H. (2004). Leg muscle activation patterns of sit-to-stand movement in stroke patients. *Am J Phys Med Rehabil*, 83(1), 10-16.
- Cheng, P. T., Liaw, M. Y., Wong, M. K., Tang, F. T., Lee, M. Y., & Lin, P. S. (1998). The sit-to-stand movement in stroke patients and its correlation with falling. *Arch Phys Med Rehabil*, 79(9), 1043-1046.
- Cheng, P. T., Wu, S. H., Liaw, M. Y., Wong, A. M., & Tang, F. T. (2001). Symmetrical body-weight distribution training in stroke patients and its effect on fall prevention. *Arch Phys Med Rehabil*, 82(12), 1650-1654.
- Choi-Kwon, S., Han, S. W., Kwon, S. U., & Kim, J. S. (2005). Poststroke fatigue: characteristics and related factors. *Cerebrovasc Dis*, 19(2), 84-90.
- Chu, C. J., & Jones, T. A. (2000). Experience-dependent structural plasticity in cortex heterotopic to focal sensorimotor cortical damage. *Exp Neurol*, 166(2), 403-414.
- Chua, K. S., & Kong, K. H. (1996). Functional outcome in brain stem stroke patients after rehabilitation. *Arch Phys Med Rehabil*, 77(2), 194-197.
- Chua, K. S., & Kong, K. H. (2000). Alcohol neurolysis of the sciatic nerve in the treatment of hemiplegic knee flexor spasticity: clinical outcomes. *Arch Phys Med Rehabil*, 81(10), 1432-1435.
- Cifu, D. X., & Stewart, D. G. (1999). Factors affecting functional outcome after stroke: a critical review of rehabilitation interventions. *Arch Phys Med Rehabil*, 80(5 Suppl 1), S35-39.
- Colantonio, A., Kasl, S. V., Ostfeld, A. M., & Berkman, L. F. (1996). Prestroke physical function predicts stroke outcomes in the elderly. *Arch Phys Med Rehabil*, 77(6), 562-566.
- Colle, F., Bonan, I., Gellez Leman, M. C., Bradai, N., & Yelnik, A. (2006). Fatigue after stroke. *Ann Readapt Med Phys*.
- Colombo, R., Pisano, F., Micera, S., Mazzone, A., Delconte, C., Carrozza, M. C., et al. (2005). Robotic techniques for upper limb evaluation and rehabilitation of stroke patients. *IEEE Trans Neural Syst Rehabil Eng*, 13(3), 311-324.
- Conforto, A. B., Kaelin-Lang, A., & Cohen, L. G. (2002). Increase in hand muscle strength of stroke patients after somatosensory stimulation. *Ann Neurol*, 51(1), 122-125.
- Crosbie, J., McDonough, S., Lennon, S., & McNeill, M. (2005). Development of a virtual reality system for the rehabilitation of the upper limb after stroke. *Stud Health Technol Inform*, 117, 218-222.
- da Cunha, I. T., Jr., Lim, P. A., Qureshy, H., Henson, H., Monga, T., & Protas, E. J. (2002). Gait outcomes after acute stroke rehabilitation with supported treadmill

- ambulation training: a randomized controlled pilot study. *Arch Phys Med Rehabil*, 83(9), 1258-1265.
- D'Alisa, S., Baudo, S., Mauro, A., & Miscio, G. (2005). How does stroke restrict participation in long-term post-stroke survivors? *Acta Neurol Scand*, 112(3), 157-162.
- Daly, J. J., Roenigk, K., Holcomb, J., Rogers, J. M., Butler, K., Gansen, J., et al. (2006). A randomized controlled trial of functional neuromuscular stimulation in chronic stroke subjects. *Stroke*, 37(1), 172-178.
- Daly, J. J., Roenigk, K. L., Butler, K. M., Gansen, J. L., Fredrickson, E., Marsolais, E. B., et al. (2004). Response of sagittal plane gait kinematics to weight-supported treadmill training and functional neuromuscular stimulation following stroke. *J Rehabil Res Dev*, 41(6), 807-820.
- Daly, J. J., & Ruff, R. L. (2000). Electrically induced recovery of gait components for older patients with chronic stroke. *Am J Phys Med Rehabil*, 79(4), 349-360.
- Daly, J. J., & Ruff, R. L. (2004). Feasibility of combining multi-channel functional neuromuscular stimulation with weight-supported treadmill training. *J Neurol Sci*, 225(1-2), 105-115.
- Daly, J. J., Ruff, R. L., Haycock, K., Strasshofer, B., Marsolais, E. B., & Dobos, L. (2000). Feasibility of gait training for acute stroke patients using FNS with implanted electrodes. *J Neurol Sci*, 179(S 1-2), 103-107.
- Daly, J. J., Ruff, R. L., Osman, S., & Hull, J. J. (2000). Response of prolonged flaccid paralysis to FNS rehabilitation techniques. *Disabil Rehabil*, 22(12), 565-573.
- Davis, P. M. (1985). *Steps to Follow : A Guide to Treatment of Adult Hemiplegia (Based on the concepts of Karel and Berta Bobath)*. New York, NY: Springer-Verlag.
- de Groot-Driessen, D., van de Sande, P., & van Heugten, C. (2006). Speed of finger tapping as a predictor of functional outcome after unilateral stroke. *Arch Phys Med Rehabil*, 87(1), 40-44.
- de Seze, M., Wiart, L., Bon-Saint-Come, A., Debelleix, X., de Seze, M., Joseph, P. A., et al. (2001). Rehabilitation of postural disturbances of hemiplegic patients by using trunk control retraining during exploratory exercises. *Arch Phys Med Rehabil*, 82(6), 793-800.
- Dean, C. M., Richards, C. L., & Malouin, F. (2000). Task-related circuit training improves performance of locomotor tasks in chronic stroke: a randomized, controlled pilot trial. *Arch Phys Med Rehabil*, 81(4), 409-417.
- Dean, C. M., & Shepherd, R. B. (1997). Task-related training improves performance of seated reaching tasks after stroke. A randomized controlled trial. *Stroke*, 28(4), 722-728.
- Debaere, F., Van Assche, D., Kiekens, C., Verschueren, S. M., & Swinnen, S. P. (2001). Coordination of upper and lower limb segments: deficits on the ipsilesional side after unilateral stroke. *Exp Brain Res*, 141(4), 519-529.
- Deprey, S. M. (1999). Random practice to enhance safe compensation of neurological deficits: a case study. *Neurology Report* 23(2), 52-56.
- Desrosiers, J., Malouin, F., Richards, C., Bourbonnais, D., Rochette, A., & Bravo, G. (2003). Comparison of changes in upper and lower extremity impairments and disabilities after stroke. *Int J Rehabil Res*, 26(2), 109-116.

- Dettmers, C., Teske, U., Hamzei, F., Usawatte, G., Taub, E., & Weiller, C. (2005). Distributed form of constraint-induced movement therapy improves functional outcome and quality of life after stroke. *Arch Phys Med Rehabil*, 86(2), 204-209.
- Dewald, J. P., Given, J. D., & Rymer, W. Z. (1996). Long-lasting reductions of spasticity induced by skin electrical stimulation. *IEEE Trans Rehabil Eng*, 4(4), 231-242.
- Dewald, J. P., Pope, P. S., Given, J. D., Buchanan, T. S., & Rymer, W. Z. (1995). Abnormal muscle coactivation patterns during isometric torque generation at the elbow and shoulder in hemiparetic subjects. *Brain*, 118 (Pt 2), 495-510.
- Dickstein, R., Dunsky, A., & Marcovitz, E. (2004). Motor imagery for gait rehabilitation in post-stroke hemiparesis. *Phys Ther*, 84(12), 1167-1177.
- Dickstein, R., Shefi, S., Marcovitz, E., & Villa, Y. (2004). Anticipatory postural adjustment in selected trunk muscles in post stroke hemiparetic patients. *Arch Phys Med Rehabil*, 85(2), 261-267.
- Dickstein, R., Shefi, S., Marcovitz, E., & Villa, Y. (2004). Electromyographic activity of voluntarily activated trunk flexor and extensor muscles in post-stroke hemiparetic subjects. *Clin Neurophysiol*, 115(4), 790-796.
- Dietz, V., & Berger, W. (1983). Normal and impaired regulation of muscle stiffness in gait: a new hypothesis about muscle hypertonia. *Exp Neurol*, 79(3), 680-687.
- Dietz, V., Ketelsen, U. P., Berger, W., & Quintern, J. (1986). Motor unit involvement in spastic paresis. Relationship between leg muscle activation and histochemistry. *J Neurol Sci*, 75(1), 89-103.
- Dietz, V., Quintern, J., & Berger, W. (1981). Electrophysiological studies of gait in spasticity and rigidity. Evidence that altered mechanical properties of muscle contribute to hypertonia. *Brain*, 104(3), 431-449.
- Dimitrijevic, M. M., Stokic, D. S., Wawro, A. W., & Wun, C. C. (1996). Modification of motor control of wrist extension by mesh-glove electrical afferent stimulation in stroke patients. *Arch Phys Med Rehabil*, 77(3), 252-258.
- Dromerick, A. W., Edwards, D. F., & Hahn, M. (2000). Does the application of constraint-induced movement therapy during acute rehabilitation reduce arm impairment after ischemic stroke? *Stroke*, 31(12), 2984-2988.
- Dromerick, A. W., Kumar, A., Volshteyn, O., & Edwards, D. F. (2006). Hemiplegic shoulder pain syndrome: interrater reliability of physical diagnosis signs. *Arch Phys Med Rehabil*, 87(2), 294-295.
- Duncan, P., Richards, L., Wallace, D., Stoker-Yates, J., Pohl, P., Luchies, C., et al. (1998). A randomized, controlled pilot study of a home-based exercise program for individuals with mild and moderate stroke. *Stroke*, 29(10), 2055-2060.
- Duncan, P., Studenski, S., Richards, L., Gollub, S., Lai, S. M., Reker, D., et al. (2003). Randomized clinical trial of therapeutic exercise in subacute stroke. *Stroke*, 34(9), 2173-2180.
- Duncan, P. W. (1994). Stroke disability. *Phys Ther*, 74(5), 399-407.
- Duncan, P. W. (2002). Stroke recovery and rehabilitation research. *J Rehabil Res Dev*, 39(3), ix-xi.
- Duncan, P. W., Goldstein, L. B., Matchar, D., Divine, G. W., & Feussner, J. (1992). Measurement of motor recovery after stroke. Outcome assessment and sample size requirements. *Stroke*, 23(8), 1084-1089.

- Duncan, P. W., Horner, R. D., Reker, D. M., Samsa, G. P., Hoenig, H., Hamilton, B., et al. (2002). Adherence to postacute rehabilitation guidelines is associated with functional recovery in stroke. *Stroke*, 33(1), 167-177.
- Duncan, P. W., Lai, S. M., Bode, R. K., Perera, S., & DeRosa, J. (2003). Stroke Impact Scale-16: A brief assessment of physical function. *Neurology*, 60(2), 291-296.
- Duncan, P. W., Lai, S. M., & Keighley, J. (2000). Defining post-stroke recovery: implications for design and interpretation of drug trials. *Neuropharmacology*, 39(5), 835-841.
- Duncan, P. W., Lai, S. M., Tyler, D., Perera, S., Reker, D. M., & Studenski, S. (2002). Evaluation of proxy responses to the Stroke Impact Scale. *Stroke*, 33(11), 2593-2599.
- Duncan, P. W., Reker, D. M., Horner, R. D., Samsa, G. P., Hoenig, H., LaClair, B. J., et al. (2002). Performance of a mail-administered version of a stroke-specific outcome measure, the Stroke Impact Scale. *Clin Rehabil*, 16(5), 493-505.
- Duraski, S. A. (2006). Stroke prevention education in the Hispanic community. *Rehabil Nurs*, 31(1), 5-9.
- Dursun, E., Hamamci, N., Donmez, S., Tuzunalp, O., & Cakci, A. (1996). Angular biofeedback device for sitting balance of stroke patients. *Stroke*, 27(8), 1354-1357.
- Edwards, B., & O'Connell, B. (2003). Internal consistency and validity of the Stroke Impact Scale 2.0 (SIS 2.0) and SIS-16 in an Australian sample. *Qual Life Res*, 12(8), 1127-1135.
- Eich, H. J., Mach, H., Werner, C., & Hesse, S. (2004). Aerobic treadmill plus Bobath walking training improves walking in subacute stroke: a randomized controlled trial. *Clin Rehabil*, 18(6), 640-651.
- Endres, M., Gertz, K., Lindauer, U., Katchanov, J., Schultze, J., Schrock, H., et al. (2003). Mechanisms of stroke protection by physical activity. *Ann Neurol*, 54(5), 582-590.
- Engardt, M. (1994). Rising and sitting down in stroke patients. Auditory feedback and dynamic strength training to enhance symmetrical body weight distribution. *Scand J Rehabil Med Suppl*, 31, 1-57.
- Engardt, M., Knutsson, E., Jonsson, M., & Sternhag, M. (1995). Dynamic muscle strength training in stroke patients: effects on knee extension torque, electromyographic activity, and motor function. *Arch Phys Med Rehabil*, 76(5), 419-425.
- Fasoli, S. E., Krebs, H. I., Ferraro, M., Hogan, N., & Volpe, B. T. (2004). Does shorter rehabilitation limit potential recovery poststroke? *Neurorehabil Neural Repair*, 18(2), 88-94.
- Fellows, S. J., Kaus, C., & Thilmann, A. F. (1994). Voluntary movement at the elbow in spastic hemiparesis. *Ann Neurol*, 36(3), 397-407.
- Ferraro, M., Palazzolo, J. J., Krol, J., Krebs, H. I., Hogan, N., & Volpe, B. T. (2003). Robot-aided sensorimotor arm training improves outcome in patients with chronic stroke. *Neurology*, 61(11), 1604-1607.
- Fetters, L., & Kluzik, J. (1996). The effects of neurodevelopmental treatment versus practice on the reaching of children with spastic cerebral palsy. *Phys Ther*, 76(4), 346-358.

- Feys, H. M., De Weerd, W. J., Selz, B. E., Cox Steck, G. A., Spichiger, R., Vereeck, L. E., et al. (1998). Effect of a therapeutic intervention for the hemiplegic upper limb in the acute phase after stroke: a single-blind, randomized, controlled multicenter trial. *Stroke*, 29(4), 785-792.
- Fisher, B. (1987). Effect of trunk control and alignment on limb function. *Journal of Head Trauma Rehabilitation*, 2(2), 72-79.
- Fjaerstoft, H., Indredavik, B., Johnsen, R., & Lydersen, S. (2004). Acute stroke unit care combined with early supported discharge. Long-term effects on quality of life. A randomized controlled trial. *Clin Rehabil*, 18(5), 580-586.
- Fjaerstoft, H., Indredavik, B., & Lydersen, S. (2003). Stroke unit care combined with early supported discharge: long-term follow-up of a randomized controlled trial. *Stroke*, 34(11), 2687-2691.
- Fjaerstoft, H., Indredavik, B., Magnussen, J., & Johnsen, R. (2005). Early supported discharge for stroke patients improves clinical outcome. Does it also reduce use of health services and costs? One-year follow-up of a randomized controlled trial. *Cerebrovasc Dis*, 19(6), 376-383.
- Fong, K. N., Chan, C. C., & Au, D. K. (2001). Relationship of motor and cognitive abilities to functional performance in stroke rehabilitation. *Brain Inj*, 15(5), 443-453.
- Francisco, G. E., & Boake, C. (2003). Improvement in walking speed in poststroke spastic hemiplegia after intrathecal baclofen therapy: a preliminary study. *Arch Phys Med Rehabil*, 84(8), 1194-1199.
- Freburger, J. K. (1999). Analysis of the relationship between the utilization of physical therapy services and outcomes for patients with acute stroke. *Phys Ther*, 79(10), 906-918.
- Fujita, M., & Nakamura, R. (1986). The effect of PNF position of the upper extremity on rapid knee extension. *Tohoku J Exp Med*, 150(1), 31-35.
- Fujiwara, T., Liu, M., & Chino, N. (2003). Effect of pedaling exercise on the hemiplegic lower limb. *Am J Phys Med Rehabil*, 82(5), 357-363.
- Fujiwara, T., Liu, M., Tsuji, T., Sonoda, S., Mizuno, K., Akaboshi, K., et al. (2004). Development of a new measure to assess trunk impairment after stroke (trunk impairment scale): its psychometric properties. *Am J Phys Med Rehabil*, 83(9), 681-688.
- Fujiwara, T., Sonoda, S., Okajima, Y., & Chino, N. (2001). The relationships between trunk function and the findings of transcranial magnetic stimulation among patients with stroke. *J Rehabil Med*, 33(6), 249-255.
- Fung, J., Richards, C. L., Malouin, F., McFadyen, B. J., & Lamontagne, A. (2006). A treadmill and motion coupled virtual reality system for gait training post-stroke. *Cyberpsychol Behav*, 9(2), 157-162.
- Gainotti, G., Antonucci, G., Marra, C., & Paolucci, S. (2001). Relation between depression after stroke, antidepressant therapy, and functional recovery. *J Neurol Neurosurg Psychiatry*, 71(2), 258-261.
- Garland, S. J., Willems, D. A., Ivanova, T. D., & Miller, K. J. (2003). Recovery of standing balance and functional mobility after stroke. *Arch Phys Med Rehabil*, 84(12), 1753-1759.

- Geiger, R. A., Allen, J. B., O'Keefe, J., & Hicks, R. R. (2001). Balance and mobility following stroke: effects of physical therapy interventions with and without biofeedback/forceplate training. *Phys Ther*, 81(4), 995-1005.
- Geurts, A. C., de Haart, M., van Nes, I. J., & Duysens, J. (2005). A review of standing balance recovery from stroke. *Gait Posture*, 22(3), 267-281.
- Gilman, S. (2006). Time course and outcome of recovery from stroke: Relevance to stem cell treatment. *Exp Neurol*.
- Given, J. D., Dewald, J. P., & Rymer, W. Z. (1995). Joint dependent passive stiffness in paretic and contralateral limbs of spastic patients with hemiparetic stroke. *J Neurol Neurosurg Psychiatry*, 59(3), 271-279.
- Glanz, M., Klawansky, S., & Chalmers, T. (1997). Biofeedback therapy in stroke rehabilitation: a review. *J R Soc Med*, 90(1), 33-39.
- Glanz, M., Klawansky, S., Stason, W., Berkey, C., & Chalmers, T. C. (1996). Functional electrostimulation in poststroke rehabilitation: a meta-analysis of the randomized controlled trials. *Arch Phys Med Rehabil*, 77(6), 549-553.
- Glanz, M., Klawansky, S., Stason, W., Berkey, C., Shah, N., Phan, H., et al. (1995). Biofeedback therapy in poststroke rehabilitation: a meta-analysis of the randomized controlled trials. *Arch Phys Med Rehabil*, 76(6), 508-515.
- Gowland, C., deBruin, H., Basmajian, J. V., Plews, N., & Burcea, I. (1992). Agonist and antagonist activity during voluntary upper-limb movement in patients with stroke. *Phys Ther*, 72(9), 624-633.
- Gracies, J. M., Fitzpatrick, R., Wilson, L., Burke, D., & Gandevia, S. C. (1997). Lycra garments designed for patients with upper limb spasticity: mechanical effects in normal subjects. *Arch Phys Med Rehabil*, 78(10), 1066-1071.
- Gracies, J. M., Marosszky, J. E., Renton, R., Sandanam, J., Gandevia, S. C., & Burke, D. (2000). Short-term effects of dynamic lycra splints on upper limb in hemiplegic patients. *Arch Phys Med Rehabil*, 81(12), 1547-1555.
- Granat, M. H., Maxwell, D. J., Ferguson, A. C., Lees, K. R., & Barbenel, J. C. (1996). Peroneal stimulator; evaluation for the correction of spastic drop foot in hemiplegia. *Arch Phys Med Rehabil*, 77(1), 19-24.
- Grissom, S. P., & Blanton, S. (2001). Treatment of upper motoneuron plantarflexion contractures by using an adjustable ankle-foot orthosis. *Arch Phys Med Rehabil*, 82(2), 270-273.
- Grotta, J. C., Noser, E. A., Ro, T., Boake, C., Levin, H., Aronowski, J., et al. (2004). Constraint-induced movement therapy. *Stroke*, 35(11 Suppl 1), 2699-2701.
- Hakim, R. M., Kelly, S. J., Grant-Beuttler, M., Healy, B., Krempasky, J., & Moore, S. (2005). Case report: a modified constraint-induced therapy (mCIT) program for the upper extremity of a person with chronic stroke. *Physiother Theory Pract*, 21(4), 243-256.
- Hakkennes, S., & Keating, J. L. (2005). Constraint-induced movement therapy following stroke: a systematic review of randomised controlled trials. *Aust J Physiother*, 51(4), 221-231.
- Hammond, M. C., Fitts, S. S., Kraft, G. H., Nutter, P. B., Trotter, M. J., & Robinson, L. M. (1988). Co-contraction in the hemiparetic forearm: quantitative EMG evaluation. *Arch Phys Med Rehabil*, 69(5), 348-351.

- Hammond, M. C., Kraft, G. H., & Fitts, S. S. (1988). Recruitment and termination of electromyographic activity in the hemiparetic forearm. *Arch Phys Med Rehabil*, 69(2), 106-110.
- Hanlon, R. E. (1996). Motor learning following unilateral stroke. *Arch Phys Med Rehabil*, 77(8), 811-815.
- Harris-Love, M. L., Forrester, L. W., Macko, R. F., Silver, K. H., & Smith, G. V. (2001). Hemiparetic gait parameters in overground versus treadmill walking. *Neurorehabil Neural Repair*, 15(2), 105-112.
- Harris-Love, M. L., Macko, R. F., Whitall, J., & Forrester, L. W. (2004). Improved hemiparetic muscle activation in treadmill versus overground walking. *Neurorehabil Neural Repair*, 18(3), 154-160.
- Harvey, R. L. (2003). Motor recovery after stroke: new directions in scientific inquiry. *Phys Med Rehabil Clin N Am*, 14(1 Suppl), S1-5.
- Heinemann, A. W., Roth, E. J., Rychlik, K., Pe, K., King, C., & Clumpner, J. (2003). The impact of stroke practice guidelines on knowledge and practice patterns of acute care health professionals. *J Eval Clin Pract*, 9(2), 203-212.
- Helbostad, J. L. (2003). Treadmill training and/or body weight support may not improve walking ability following stroke. *Aust J Physiother*, 49(4), 278.
- Hesse, S. (2001). Locomotor therapy in neurorehabilitation. *NeuroRehabilitation*, 16(3), 133-139.
- Hesse, S. (2004). Recovery of gait and other motor functions after stroke: novel physical and pharmacological treatment strategies. *Restor Neurol Neurosci*, 22(3-5), 359-369.
- Hesse, S., Bertelt, C., Jahnke, M. T., Schaffrin, A., Baake, P., Malezic, M., et al. (1995). Treadmill training with partial body weight support compared with physiotherapy in nonambulatory hemiparetic patients. *Stroke*, 26(6), 976-981.
- Hesse, S., Bertelt, C., Schaffrin, A., Malezic, M., & Mauritz, K. H. (1994). Restoration of gait in nonambulatory hemiparetic patients by treadmill training with partial body-weight support. *Arch Phys Med Rehabil*, 75(10), 1087-1093.
- Hesse, S., Brandi-Hesse, B., Bardeleben, A., Werner, C., & Funk, M. (2001). Botulinum toxin A treatment of adult upper and lower limb spasticity. *Drugs Aging*, 18(4), 255-262.
- Hesse, S., Konrad, M., & Uhlenbrock, D. (1999). Treadmill walking with partial body weight support versus floor walking in hemiparetic subjects. *Arch Phys Med Rehabil*, 80(4), 421-427.
- Hesse, S., Schmidt, H., Werner, C., & Bardeleben, A. (2003). Upper and lower extremity robotic devices for rehabilitation and for studying motor control. *Curr Opin Neurol*, 16(6), 705-710.
- Hesse, S., Uhlenbrock, D., & Sarkodie-Gyan, T. (1999). Gait pattern of severely disabled hemiparetic subjects on a new controlled gait trainer as compared to assisted treadmill walking with partial body weight support. *Clin Rehabil*, 13(5), 401-410.
- Hesse, S., Uhlenbrock, D., Werner, C., & Bardeleben, A. (2000). A mechanized gait trainer for restoring gait in nonambulatory subjects. *Arch Phys Med Rehabil*, 81(9), 1158-1161.

- Hesse, S., & Werner, C. (2003). Partial body weight supported treadmill training for gait recovery following stroke. *Adv Neurol*, 92, 423-428.
- Hesse, S., & Werner, C. (2003). Poststroke motor dysfunction and spasticity: novel pharmacological and physical treatment strategies. *CNS Drugs*, 17(15), 1093-1107.
- Hesse, S., Werner, C., Bardeleben, A., & Barbeau, H. (2001). Body weight-supported treadmill training after stroke. *Curr Atheroscler Rep*, 3(4), 287-294.
- Hesse, S., Werner, C., Uhlenbrock, D., von Frankenberg, S., Bardeleben, A., & Brandl-Hesse, B. (2001). An electromechanical gait trainer for restoration of gait in hemiparetic stroke patients: preliminary results. *Neurorehabil Neural Repair*, 15(1), 39-50.
- Hesse, S., Werner, C., von Frankenberg, S., & Bardeleben, A. (2003). Treadmill training with partial body weight support after stroke. *Phys Med Rehabil Clin N Am*, 14(1 Suppl), S111-123.
- Hesse, S. A., Jahnke, M. T., Bertelt, C. M., Schreiner, C., Lucke, D., & Mauritz, K. H. (1994). Gait outcome in ambulatory hemiparetic patients after a 4-week comprehensive rehabilitation program and prognostic factors. *Stroke*, 25(10), 1999-2004.
- Hochstenbach, J., & Mulder, T. (1999). Neuropsychology and the relearning of motor skills following stroke. *Int J Rehabil Res*, 22(1), 11-19.
- Holden, M., Todorov, E., Callahn, J. & Bizzi, E. (1999). Virtual environment training improves motor performance in two patients with stroke: a case report. *Neurology Report*, 23(2), 56-57.
- Holden, M. K., Dettwiler, A., Dyar, T., Niemann, G., & Bizzi, E. (2001). Retraining movement in patients with acquired brain injury using a virtual environment. *Stud Health Technol Inform*, 81, 192-198.
- Holt, R., Kendrick, C., McGlasha, K., Kirker, S., & Jenner, J. . (2001). Static bicycle training for functional mobility in chronic stroke: a case report. *Physiotherapy*, 87(5), 257-260.
- Hummelsheim, H., Maier-Loth, M. L., & Eickhof, C. (1997). The functional value of electrical muscle stimulation for the rehabilitation of the hand in stroke patients. *Scand J Rehabil Med*, 29(1), 3-10.
- Indredavik, B. (2003). Stroke units - the Norwegian experience. *Cerebrovasc Dis*, 15 Suppl 1, 19-20.
- Indredavik, B., Bakke, F., Slordahl, S. A., Rokseth, R., & Haheim, L. L. (1998). Stroke unit treatment improves long-term quality of life: a randomized controlled trial. *Stroke*, 29(5), 895-899.
- Indredavik, B., Bakke, F., Slordahl, S. A., Rokseth, R., & Haheim, L. L. (1999). Treatment in a combined acute and rehabilitation stroke unit: which aspects are most important? *Stroke*, 30(5), 917-923.
- Indredavik, B., Fjaerøft, H., Ekeberg, G., Loge, A. D., & Mørch, B. (2000). Benefit of an extended stroke unit service with early supported discharge: A randomized, controlled trial. *Stroke*, 31(12), 2989-2994.
- Ingall, T. J. (2000). Preventing ischemic stroke. Current approaches to primary and secondary prevention. *Postgrad Med*, 107(6), 34-36, 39-42, 47-50.

- Ingles, J. L., Eskes, G. A., & Phillips, S. J. (1999). Fatigue after stroke. *Arch Phys Med Rehabil*, 80(2), 173-178.
- Intiso, D., Santilli, V., Grasso, M. G., Rossi, R., & Caruso, I. (1994). Rehabilitation of walking with electromyographic biofeedback in foot-drop after stroke. *Stroke*, 25(6), 1189-1192.
- Iwata, M., Kondo, I., Sato, Y., Satoh, K., Soma, M., & Tsushima, E. (2003). An ankle-foot orthosis with inhibitor bar: effect on hemiplegic gait. *Arch Phys Med Rehabil*, 84(6), 924-927.
- Jack, D., Boian, R., Merians, A. S., Tremaine, M., Burdea, G. C., Adamovich, S. V., et al. (2001). Virtual reality-enhanced stroke rehabilitation. *IEEE Trans Neural Syst Rehabil Eng*, 9(3), 308-318.
- Jang, S. H., Kim, Y. H., Cho, S. H., Lee, J. H., Park, J. W., & Kwon, Y. H. (2003). Cortical reorganization induced by task-oriented training in chronic hemiplegic stroke patients. *Neuroreport*, 14(1), 137-141.
- Jang, S. H., You, S. H., Hallett, M., Cho, Y. W., Park, C. M., Cho, S. H., et al. (2005). Cortical reorganization and associated functional motor recovery after virtual reality in patients with chronic stroke: an experimenter-blind preliminary study. *Arch Phys Med Rehabil*, 86(11), 2218-2223.
- Jaracz, K., & Kozubski, W. (2003). Quality of life in stroke patients. *Acta Neurol Scand*, 107(5), 324-329.
- Jette, D. U., Latham, N. K., Smout, R. J., Gassaway, J., Slavin, M. D., & Horn, S. D. (2005). Physical therapy interventions for patients with stroke in inpatient rehabilitation facilities. *Phys Ther*, 85(3), 238-248.
- Johansson, B. B., Haker, E., von Arbin, M., Britton, M., Langstrom, G., Terent, A., et al. (2001). Acupuncture and transcutaneous nerve stimulation in stroke rehabilitation: a randomized, controlled trial. *Stroke*, 32(3), 707-713.
- Jones, T. A., & Schallert, T. (1994). Use-dependent growth of pyramidal neurons after neocortical damage. *J Neurosci*, 14(4), 2140-2152.
- Karnath, H. O., & Broetz, D. (2003). Understanding and treating "pusher syndrome". *Phys Ther*, 83(12), 1119-1125.
- Katrak, P., Bowring, G., Conroy, P., Chilvers, M., Poulos, R., & McNeil, D. (1998). Predicting upper limb recovery after stroke: the place of early shoulder and hand movement. *Arch Phys Med Rehabil*, 79(7), 758-761.
- Kelly, J. O., Kilbreath, S. L., Davis, G. M., Zeman, B., & Raymond, J. (2003). Cardiorespiratory fitness and walking ability in subacute stroke patients. *Arch Phys Med Rehabil*, 84(12), 1780-1785.
- Kelly, P. J., Furie, K. L., Shafqat, S., Rallis, N., Chang, Y., & Stein, J. (2003). Functional recovery following rehabilitation after hemorrhagic and ischemic stroke. *Arch Phys Med Rehabil*, 84(7), 968-972.
- Kelly, P. J., Stein, J., Shafqat, S., Eskey, C., Doherty, D., Chang, Y., et al. (2001). Functional recovery after rehabilitation for cerebellar stroke. *Stroke*, 32(2), 530-534.
- Kelly-Hayes, M., & Paige, C. (1995). Assessment and psychologic factors in stroke rehabilitation. *Neurology*, 45(2 Suppl 1), S29-32.

- Kelly-Hayes, M., Robertson, J. T., Broderick, J. P., Duncan, P. W., Hershey, L. A., Roth, E. J., et al. (1998). The American Heart Association Stroke Outcome Classification. *Stroke*, 29(6), 1274-1280.
- Knutsson, E., & Martensson, A. (1980). Dynamic motor capacity in spastic paresis and its relation to prime mover dysfunction, spastic reflexes and antagonist co-activation. *Scand J Rehabil Med*, 12(3), 93-106.
- Kopp, B., Kunkel, A., Flor, H., Platz, T., Rose, U., Mauritz, K. H., et al. (1997). The Arm Motor Ability Test: reliability, validity, and sensitivity to change of an instrument for assessing disabilities in activities of daily living. *Arch Phys Med Rehabil*, 78(6), 615-620.
- Kopp, B., Kunkel, A., Muhlnickel, W., Villringer, K., Taub, E., & Flor, H. (1999). Plasticity in the motor system related to therapy-induced improvement of movement after stroke. *Neuroreport*, 10(4), 807-810.
- Kosak, M., & Smith, T. (2005). Comparison of the 2-, 6-, and 12-minute walk tests in patients with stroke. *J Rehabil Res Dev*, 42(1), 103-107.
- Kosak, M. C., & Reding, M. J. (2000). Comparison of partial body weight-supported treadmill gait training versus aggressive bracing assisted walking post stroke. *Neurorehabil Neural Repair*, 14(1), 13-19.
- Kraft, G. H., Fitts, S. S., & Hammond, M. C. (1992). Techniques to improve function of the arm and hand in chronic hemiplegia. *Arch Phys Med Rehabil*, 73(3), 220-227.
- Krakauer, J. W. (2006). Motor learning: its relevance to stroke recovery and neurorehabilitation. *Curr Opin Neurol*, 19(1), 84-90.
- Krebs, H. I., Volpe, B. T., Aisen, M. L., & Hogan, N. (2000). Increasing productivity and quality of care: robot-aided neuro-rehabilitation. *J Rehabil Res Dev*, 37(6), 639-652.
- Krebs, H. I., Volpe, B. T., Ferraro, M., Fasoli, S., Palazzolo, J., Rohrer, B., et al. (2002). Robot-aided neurorehabilitation: from evidence-based to science-based rehabilitation. *Top Stroke Rehabil*, 8(4), 54-70.
- Krishnan, R. V. (2006). Relearning toward motor recovery in stroke, spinal cord injury, and cerebral palsy: a cognitive neural systems perspective. *Int J Neurosci*, 116(2), 127-140.
- Kuan, T. S., Tsou, J. Y., & Su, F. C. (1999). Hemiplegic gait of stroke patients: the effect of using a cane. *Arch Phys Med Rehabil*, 80(7), 777-784.
- Kunkel, A., Kopp, B., Muller, G., Villringer, K., Villringer, A., Taub, E., et al. (1999). Constraint-induced movement therapy for motor recovery in chronic stroke patients. *Arch Phys Med Rehabil*, 80(6), 624-628.
- Kwakkel, G., van Peppen, R., Wagenaar, R. C., Wood Dauphinee, S., Richards, C., Ashburn, A., et al. (2004). Effects of augmented exercise therapy time after stroke: a meta-analysis. *Stroke*, 35(11), 2529-2539.
- Kwakkel, G., Wagenaar, R. C., Koelman, T. W., Lankhorst, G. J., & Koetsier, J. C. (1997). Effects of intensity of rehabilitation after stroke. A research synthesis. *Stroke*, 28(8), 1550-1556.
- Kwakkel, G., Wagenaar, R. C., Twisk, J. W., Lankhorst, G. J., & Koetsier, J. C. (1999). Intensity of leg and arm training after primary middle-cerebral-artery stroke: a randomised trial. *Lancet*, 354(9174), 191-196.

- Kwon, S., Duncan, P., Studenski, S., Perera, S., Lai, S. M., & Reker, D. (2006). Measuring stroke impact with SIS: construct validity of SIS telephone administration. *Qual Life Res*, 15(3), 367-376.
- Lagalla, G., Danni, M., Reiter, F., Ceravolo, M. G., & Provinciali, L. (2000). Post-stroke spasticity management with repeated botulinum toxin injections in the upper limb. *Am J Phys Med Rehabil*, 79(4), 377-384; quiz 391-374.
- Lamontagne, A., De Serres, S. J., Fung, J., & Paquet, N. (2005). Stroke affects the coordination and stabilization of head, thorax and pelvis during voluntary horizontal head motions performed in walking. *Clin Neurophysiol*, 116(1), 101-111.
- Lamontagne, A., & Fung, J. (2004). Faster is better: implications for speed-intensive gait training after stroke. *Stroke*, 35(11), 2543-2548.
- Landau, W. M. (1980). Spasticity: What is it? What is it Not? In R. G. Feldman, Young, R. R., Keolla, W. P. (Ed.), *Spasticity Disordered Motor Control*. Chicago, IL: Yearbook Publishers.
- Landau, W. M., & Sahrmann, S. A. (2002). Preservation of directly stimulated muscle strength in hemiplegia due to stroke. *Arch Neurol*, 59(9), 1453-1457.
- Landi, F., Onder, G., Cesari, M., Zamboni, V., Russo, A., Barillaro, C., et al. (2006). Functional decline in frail community-dwelling stroke patients. *Eur J Neurol*, 13(1), 17-23.
- Langhammer, B., & Stanghelle, J. K. (2000). Bobath or motor relearning programme? A comparison of two different approaches of physiotherapy in stroke rehabilitation: a randomized controlled study. *Clin Rehabil*, 14(4), 361-369.
- Langhammer, B., & Stanghelle, J. K. (2003). Bobath or motor relearning programme? A follow-up one and four years post stroke. *Clin Rehabil*, 17(7), 731-734.
- Langhorne, P. (2002). Intensity of rehabilitation: some answers and more questions? *J Neurol Neurosurg Psychiatry*, 72(4), 430-431.
- Langhorne, P., & Duncan, P. (2001). Does the organization of postacute stroke care really matter? *Stroke*, 32(1), 268-274.
- Langhorne, P., Taylor, G., Murray, G., Dennis, M., Anderson, C., Bautz-Holter, E., et al. (2005). Early supported discharge services for stroke patients: a meta-analysis of individual patients' data. *Lancet*, 365(9458), 501-506.
- Langhorne, P., Wagenaar, R., & Partridge, C. (1996). Physiotherapy after stroke: more is better? *Physiother Res Int*, 1(2), 75-88.
- Latham, N. K., Jette, D. U., Slavin, M., Richards, L. G., Procino, A., Smout, R. J., et al. (2005). Physical therapy during stroke rehabilitation for people with different walking abilities. *Arch Phys Med Rehabil*, 86(12 Suppl 2), S41-S50.
- Laufer, Y. (2002). Effects of one-point and four-point canes on balance and weight distribution in patients with hemiparesis. *Clin Rehabil*, 16(2), 141-148.
- Laufer, Y. (2003). The effect of walking aids on balance and weight-bearing patterns of patients with hemiparesis in various stance positions. *Phys Ther*, 83(2), 112-122.
- Laufer, Y., Dickstein, R., Chefez, Y., & Marcovitz, E. (2001). The effect of treadmill training on the ambulation of stroke survivors in the early stages of rehabilitation: a randomized study. *J Rehabil Res Dev*, 38(1), 69-78.

- Laufer, Y., Gattenio, L., Parnas, E., Sinai, D., Sorek, Y., & Dickstein, R. (2001). Time-related changes in motor performance of the upper extremity ipsilateral to the side of the lesion in stroke survivors. *Neurorehabil Neural Repair*, 15(3), 167-172.
- Laufer, Y., Sivan, D., Schwarzmann, R., & Sprecher, E. (2003). Standing balance and functional recovery of patients with right and left hemiparesis in the early stages of rehabilitation. *Neurorehabil Neural Repair*, 17(4), 207-213.
- Law, M., Cadman, D., Rosenbaum, P., Walter, S., Russell, D., & DeMatteo, C. (1991). Neurodevelopmental therapy and upper-extremity inhibitive casting for children with cerebral palsy. *Dev Med Child Neurol*, 33(5), 379-387.
- Law, M., & King, G. (1993). Parent compliance with therapeutic interventions for children with cerebral palsy. *Dev Med Child Neurol*, 35(11), 983-990.
- Law, M., Russell, D., Pollock, N., Rosenbaum, P., Walter, S., & King, G. (1997). A comparison of intensive neurodevelopmental therapy plus casting and a regular occupational therapy program for children with cerebral palsy. *Dev Med Child Neurol*, 39(10), 664-670.
- Lawler, J., Dowswell, G., Hearn, J., Forster, A., & Young, J. (1999). Recovering from stroke: a qualitative investigation of the role of goal setting in late stroke recovery. *J Adv Nurs*, 30(2), 401-409.
- Lawrence, L., & Christie, D. (1979). Quality of life after stroke: a three-year follow-up. *Age Ageing*, 8(3), 167-172.
- Lee, C. D., Folsom, A. R., & Blair, S. N. (2003). Physical activity and stroke risk: a meta-analysis. *Stroke*, 34(10), 2475-2481.
- Lee, M. Y., Wong, M. K., Tang, F. T., Cheng, P. T., Chiou, W. K., & Lin, P. S. (1998). New quantitative and qualitative measures on functional mobility prediction for stroke patients. *J Med Eng Technol*, 22(1), 14-24.
- Lee, T. D., Swanson, L. R., & Hall, A. L. (1991). What is repeated in a repetition? Effects of practice conditions on motor skill acquisition. *Phys Ther*, 71(2), 150-156.
- Legg, L., & Langhorne, P. (2004). Rehabilitation therapy services for stroke patients living at home: systematic review of randomised trials. *Lancet*, 363(9406), 352-356.
- Lennon, S. (2001). Gait re-education based on the Bobath concept in two patients with hemiplegia following stroke. *Phys Ther*, 81(3), 924-935.
- Lennon, S. (2003). Physiotherapy practice in stroke rehabilitation: a survey. *Disabil Rehabil*, 25(9), 455-461.
- Lennon, S., & Ashburn, A. (2000). The Bobath concept in stroke rehabilitation: a focus group study of the experienced physiotherapists' perspective. *Disabil Rehabil*, 22(15), 665-674.
- Lennon, S., Baxter, D., & Ashburn, A. (2001). Physiotherapy based on the Bobath concept in stroke rehabilitation: a survey within the UK. *Disabil Rehabil*, 23(6), 254-262.
- Lennon, S., & Johnson, L. (2000). The modified rivermead mobility index: validity and reliability. *Disabil Rehabil*, 22(18), 833-839.
- Leroux, A. (2005). Exercise training to improve motor performance in chronic stroke: effects of a community-based exercise program. *Int J Rehabil Res*, 28(1), 17-23.

- Levine, P., & Page, S. J. (2004). Modified constraint-induced therapy: a promising restorative outpatient therapy. *Top Stroke Rehabil*, 11(4), 1-10.
- Liepert, J., Bauder, H., Wolfgang, H. R., Miltner, W. H., Taub, E., & Weiller, C. (2000). Treatment-induced cortical reorganization after stroke in humans. *Stroke*, 31(6), 1210-1216.
- Liepert, J., Graef, S., Uhde, I., Leidner, O., & Weiller, C. (2000). Training-induced changes of motor cortex representations in stroke patients. *Acta Neurol Scand*, 101(5), 321-326.
- Liepert, J., Miltner, W. H., Bauder, H., Sommer, M., Dettmers, C., Taub, E., et al. (1998). Motor cortex plasticity during constraint-induced movement therapy in stroke patients. *Neurosci Lett*, 250(1), 5-8.
- Liepert, J., Tegenthoff, M., & Malin, J. P. (1995). Changes of cortical motor area size during immobilization. *Electroencephalogr Clin Neurophysiol*, 97(6), 382-386.
- Liepert, J., Terborg, C., & Weiller, C. (1999). Motor plasticity induced by synchronized thumb and foot movements. *Exp Brain Res*, 125(4), 435-439.
- Liepert, J., Uhde, I., Graf, S., Leidner, O., & Weiller, C. (2001). Motor cortex plasticity during forced-use therapy in stroke patients: a preliminary study. *J Neurol*, 248(4), 315-321.
- Lilly, L. A., & Powell, N. J. (1990). Measuring the effects of neurodevelopmental treatment on the daily living skills of 2 children with cerebral palsy. *Am J Occup Ther*, 44(2), 139-145.
- Lin, J. H., Hsieh, C. L., Lo, S. K., Chai, H. M., & Liao, L. R. (2004). Preliminary study of the effect of low-intensity home-based physical therapy in chronic stroke patients. *Kaohsiung J Med Sci*, 20(1), 18-23.
- Lin, J. H., Hsieh, C. L., Lo, S. K., Hsiao, S. F., & Huang, M. H. (2003). Prediction of functional outcomes in stroke inpatients receiving rehabilitation. *J Formos Med Assoc*, 102(10), 695-700.
- Lin, K. C., Wu, C. Y., & Trombly, C. A. (1998). Effects of task goal on movement kinematics and line bisection performance in adults without disabilities. *Am J Occup Ther*, 52(3), 179-187.
- Lin, S. I. (2005). Motor function and joint position sense in relation to gait performance in chronic stroke patients. *Arch Phys Med Rehabil*, 86(2), 197-203.
- Lincoln, N. B., Parry, R. H., & Vass, C. D. (1999). Randomized, controlled trial to evaluate increased intensity of physiotherapy treatment of arm function after stroke. *Stroke*, 30(3), 573-579.
- Linn, S. L., Granat, M. H., & Lees, K. R. (1999). Prevention of shoulder subluxation after stroke with electrical stimulation. *Stroke*, 30(5), 963-968.
- Lipson, D. M., Sangha, H., Foley, N. C., Bhogal, S., Pohani, G., & Teasell, R. W. (2005). Recovery from stroke: differences between subtypes. *Int J Rehabil Res*, 28(4), 303-308.
- Liston, R., Mickelborough, J., Harris, B., Hann, A. W., & Tallis, R. C. (2000). Conventional physiotherapy and treadmill re-training for higher-level gait disorders in cerebrovascular disease. *Age Ageing*, 29(4), 311-318.
- Liu, M., Tsuji, T., Hase, K., Hara, Y., & Fujiwara, T. (2003). Physical fitness in persons with hemiparetic stroke. *Keio J Med*, 52(4), 211-219.

- Luke, C., Dodd, K. J., & Brock, K. (2004). Outcomes of the Bobath concept on upper limb recovery following stroke. *Clin Rehabil*, 18(8), 888-898.
- Mackey, F., Ada, L., Heard, R., & Adams, R. (1996). Stroke rehabilitation: are highly structured units more conducive to physical activity than less structured units? *Arch Phys Med Rehabil*, 77(10), 1066-1070.
- Macko, R. F., Ivey, F. M., & Forrester, L. W. (2005). Task-oriented aerobic exercise in chronic hemiparetic stroke: training protocols and treatment effects. *Top Stroke Rehabil*, 12(1), 45-57.
- Macko, R. F., Ivey, F. M., Forrester, L. W., Hanley, D., Sorkin, J. D., Katzel, L. I., et al. (2005). Treadmill exercise rehabilitation improves ambulatory function and cardiovascular fitness in patients with chronic stroke: a randomized, controlled trial. *Stroke*, 36(10), 2206-2211.
- Macko, R. F., Smith, G. V., Dobrovolny, C. L., Sorkin, J. D., Goldberg, A. P., & Silver, K. H. (2001). Treadmill training improves fitness reserve in chronic stroke patients. *Arch Phys Med Rehabil*, 82(7), 879-884.
- Maeshima, S., Ueyoshi, A., Osawa, A., Ishida, K., Kunimoto, K., Shimamoto, Y., et al. (2003). Mobility and muscle strength contralateral to hemiplegia from stroke: benefit from self-training with family support. *Am J Phys Med Rehabil*, 82(6), 456-462.
- Malouin, F., Belleville, S., Richards, C. L., Desrosiers, J., & Doyon, J. (2004). Working memory and mental practice outcomes after stroke. *Arch Phys Med Rehabil*, 85(2), 177-183.
- Malouin, F., McFadyen, B., Dion, L., & Richards, C. L. (2003). A fluidity scale for evaluating the motor strategy of the rise-to-walk task after stroke. *Clin Rehabil*, 17(6), 674-684.
- Malouin, F., Potvin, M., Prevost, J., Richards, C. L., & Wood-Dauphinee, S. (1992). Use of an intensive task-oriented gait training program in a series of patients with acute cerebrovascular accidents. *Phys Ther*, 72(11), 781-789; discussion 789-793.
- Malouin, F., Richards, C. L., Doyon, J., Desrosiers, J., & Belleville, S. (2004). Training mobility tasks after stroke with combined mental and physical practice: a feasibility study. *Neurorehabil Neural Repair*, 18(2), 66-75.
- Mané, A. M., Adams, J. A., & Donchin, E. (1989). Adaptive and part-whole training in the acquisition of a complex perceptual-motor skill. *Acta Psychologica*, 71, 179-196.
- Marigold, D. S., Eng, J. J., Dawson, A. S., Inglis, J. T., Harris, J. E., & Gylfadottir, S. (2005). Exercise leads to faster postural reflexes, improved balance and mobility, and fewer falls in older persons with chronic stroke. *J Am Geriatr Soc*, 53(3), 416-423.
- Mark, V. W., Oberheu, A. M., Henderson, C., & Woods, A. J. (2005). Ballism after stroke responds to standard physical therapeutic interventions. *Arch Phys Med Rehabil*, 86(6), 1226-1233.
- Mark, V. W., & Taub, E. (2004). Constraint-induced movement therapy for chronic stroke hemiparesis and other disabilities. *Restor Neurol Neurosci*, 22(3-5), 317-336.

- Martinsson, L., Eksborg, S., & Wahlgren, N. G. (2003). Intensive early physiotherapy combined with dexamphetamine treatment in severe stroke: a randomized, controlled pilot study. *Cerebrovasc Dis*, 16(4), 338-345.
- Mauritz, K. H. (2002). Gait training in hemiplegia. *Eur J Neurol*, 9 Suppl 1, 23-29; discussion 53-61.
- Mauritz, K. H. (2004). Gait training in hemiparetic stroke patients. *Eura Medicophys*, 40(3), 165-178.
- McNevin, N. H., Wulf, G., & Carlson, C. (2000). Effects of attentional focus, self-control, and dyad training on motor learning: implications for physical rehabilitation. *Phys Ther*, 80(4), 373-385.
- Md, R. D. (2005). Ambulation in a wheelchair-bound stroke survivor using a walker with body weight support: a case report. *Top Stroke Rehabil*, 12(4), 50-55.
- Meek, C., Pollock, A., Potter, J., & Langhorne, P. (2003). A systematic review of exercise trials post stroke. *Clin Rehabil*, 17(1), 6-13.
- Michaelsen, S. M., Dannenbaum, R., & Levin, M. F. (2006). Task-specific training with trunk restraint on arm recovery in stroke: randomized control trial. *Stroke*, 37(1), 186-192.
- Miller, E. W. (2001). Body weight supported treadmill and overground training in a patient post cerebrovascular accident. *NeuroRehabilitation*, 16(3), 155-163.
- Miller, E. W., Quinn, M. E., & Seddon, P. G. (2002). Body weight support treadmill and overground ambulation training for two patients with chronic disability secondary to stroke. *Phys Ther*, 82(1), 53-61.
- Miller, G. J. Light., K. E. (1997). Strength training in spastic hemiparesis: should it be avoided? *Neurorehabilitation* 9, 17-28.
- Miltner, W. H., Bauder, H., Sommer, M., Dettmers, C., & Taub, E. (1999). Effects of constraint-induced movement therapy on patients with chronic motor deficits after stroke: a replication. *Stroke*, 30(3), 586-592.
- Moglia, A., Arrigo, A., Bejor, M., Cattaneo, S., Rascaroli, M., Arrigo, A., et al. (1987). Surface EMG evaluation of quadriceps femoris muscle in hemiplegic patients. *Funct Neurol*, 2(2), 181-187.
- Moreland, J. D., Goldsmith, C. H., Huijbregts, M. P., Anderson, R. E., Prentice, D. M., Brunton, K. B., et al. (2003). Progressive resistance strengthening exercises after stroke: a single-blind randomized controlled trial. *Arch Phys Med Rehabil*, 84(10), 1433-1440.
- Morley, W., Jackson, K., & Mead, G. E. (2005). Post-stroke fatigue: an important yet neglected symptom. *Age Ageing*, 34(3), 313.
- Moseley, A. (2005). Treadmill training more effective than Bobath training in improving walking following stroke. *Aust J Physiother*, 51(3), 192.
- Moseley, A. M., Stark, A., Cameron, I. D., & Pollock, A. (2003). Treadmill training and body weight support for walking after stroke. *Cochrane Database Syst Rev*(3), CD002840.
- Mount, J., Bolton, M., Cesari, M., Guzzardo, K., & Tarsi, J., Jr. (2005). Group balance skills class for people with chronic stroke: a case series. *J Neurol Phys Ther*, 29(1), 24-33.

- Mudge, S., Rochester, L., & Recordon, A. (2003). The effect of treadmill training on gait, balance and trunk control in a hemiplegic subject: a single system design. *Disabil Rehabil*, 25(17), 1000-1007.
- Muellbacher, W., Richards, C., Ziemann, U., Wittenberg, G., Weltz, D., Boroojerdi, B., et al. (2002). Improving hand function in chronic stroke. *Arch Neurol*, 59(8), 1278-1282.
- Nativ, A. (1993). Kinesiological issues in motor retraining following brain trauma. *Critical Reviews in Physical and Rehabilitation Medicine*, 5(3), 227-246.
- Neininger, B., & Pulvermüller, F. (2001). The right hemisphere's role in action word processing: a double case study. *Neurocase*, 7(4), 303-317.
- Nelles, G., Esser, J., Eckstein, A., Tiede, A., Gerhard, H., & Diener, H. C. (2001). Compensatory visual field training for patients with hemianopia after stroke. *Neurosci Lett*, 306(3), 189-192.
- Nelles, G., Jentzen, W., Jueptner, M., Müller, S., & Diener, H. C. (2001). Arm training induced brain plasticity in stroke studied with serial positron emission tomography. *Neuroimage*, 13(6 Pt 1), 1146-1154.
- Nilsson, L., Carlsson, J., Danielsson, A., Fugl-Meyer, A., Hellstrom, K., Kristensen, L., et al. (2001). Walking training of patients with hemiparesis at an early stage after stroke: a comparison of walking training on a treadmill with body weight support and walking training on the ground. *Clin Rehabil*, 15(5), 515-527.
- Nudo, R. J., Wise, B. M., SiFuentes, F., & Milliken, G. W. (1996). Neural substrates for the effects of rehabilitative training on motor recovery after ischemic infarct. *Science*, 272(5269), 1791-1794.
- Nuzzo, N. A., Bronson, L. A., McCarthy, T., & Massery, M. (1999). Respiratory muscle strength and endurance following a CVA. *Neurology Report*, 23(1), 25-27.
- Nyberg, L., & Gustafson, Y. (1997). Fall prediction index for patients in stroke rehabilitation. *Stroke*, 28(4), 716-721.
- O'Dwyer, N. J., Ada, L., & Neilson, P. D. (1996). Spasticity and muscle contracture following stroke. *Brain*, 119 (Pt 5), 1737-1749.
- Orrell, A. J., Eves, F. F., & Masters, R. S. (2006). Motor learning of a dynamic balancing task after stroke: implicit implications for stroke rehabilitation. *Phys Ther*, 86(3), 369-380.
- Ottenbacher, K. J., & Jannell, S. (1993). The results of clinical trials in stroke rehabilitation research. *Arch Neurol*, 50(1), 37-44.
- Paci, M. (2003). Physiotherapy based on the Bobath concept for adults with post-stroke hemiplegia: a review of effectiveness studies. *J Rehabil Med*, 35(1), 2-7.
- Paci, M., & Nannetti, L. (2004). Physiotherapy for pusher behaviour in a patient with post-stroke hemiplegia. *J Rehabil Med*, 36(4), 183-185.
- Paci, M., & Rinaldi, L. A. (2005). Physiotherapy for pusher behaviour. *NeuroRehabilitation*, 20(4), 347.
- Page, S. J. (2000). Imagery improves upper extremity motor function in chronic stroke patients: a pilot study. *The Occupational Therapy Journal of Research*, 20(3), 200-212.
- Page, S. J. (2003). Intensity versus task-specificity after stroke: how important is intensity? *Am J Phys Med Rehabil*, 82(9), 730-732.

- Page, S. J., Elovic, E., Levine, P., & Sisto, S. A. (2003). Modified constraint-induced therapy and botulinum toxin A: a promising combination. *Am J Phys Med Rehabil*, 82(1), 76-80.
- Page, S. J., Gater, D. R., & Bach, Y. R. P. (2004). Reconsidering the motor recovery plateau in stroke rehabilitation. *Arch Phys Med Rehabil*, 85(8), 1377-1381.
- Page, S. J., & Levine, P. (2006). Back from the brink: electromyography-triggered stimulation combined with modified constraint-induced movement therapy in chronic stroke. *Arch Phys Med Rehabil*, 87(1), 27-31.
- Page, S. J., Levine, P., & Leonard, A. C. (2005). Effects of mental practice on affected limb use and function in chronic stroke. *Arch Phys Med Rehabil*, 86(3), 399-402.
- Page, S. J., Levine, P., & Leonard, A. C. (2005). Modified constraint-induced therapy in acute stroke: a randomized controlled pilot study. *Neurorehabil Neural Repair*, 19(1), 27-32.
- Page, S. J., Levine, P., Sisto, S., Bond, Q., & Johnston, M. V. (2002). Stroke patients' and therapists' opinions of constraint-induced movement therapy. *Clin Rehabil*, 16(1), 55-60.
- Page, S. J., Levine, P., Sisto, S., & Johnston, M. V. (2001). A randomized efficacy and feasibility study of imagery in acute stroke. *Clin Rehabil*, 15(3), 233-240.
- Page, S. J., Levine, P., Sisto, S. A., & Johnston, M. V. (2001). Mental practice combined with physical practice for upper-limb motor deficit in subacute stroke. *Phys Ther*, 81(8), 1455-1462.
- Page, S. J., Sisto, S., Johnston, M. V., & Levine, P. (2002). Modified constraint-induced therapy after subacute stroke: a preliminary study. *Neurorehabil Neural Repair*, 16(3), 290-295.
- Page, S. J., Sisto, S., Johnston, M. V., Levine, P., & Hughes, M. (2002). Modified constraint-induced therapy in subacute stroke: a case report. *Arch Phys Med Rehabil*, 83(2), 286-290.
- Page, S. J., Sisto, S., Levine, P., & McGrath, R. E. (2004). Efficacy of modified constraint-induced movement therapy in chronic stroke: a single-blinded randomized controlled trial. *Arch Phys Med Rehabil*, 85(1), 14-18.
- Page, S. J., Sisto, S. A., & Levine, P. (2002). Modified constraint-induced therapy in chronic stroke. *Am J Phys Med Rehabil*, 81(11), 870-875.
- Page, S. J., Sisto, S. A., Levine, P., Johnston, M. V., & Hughes, M. (2001). Modified constraint induced therapy: a randomized feasibility and efficacy study. *J Rehabil Res Dev*, 38(5), 583-590.
- Paolucci, S., Antonucci, G., Gialloreto, L. E., Traballesi, M., Lubich, S., Pratesi, L., et al. (1996). Predicting stroke inpatient rehabilitation outcome: the prominent role of neuropsychological disorders. *Eur Neurol*, 36(6), 385-390.
- Paolucci, S., Antonucci, G., Grasso, M. G., Bragoni, M., Coiro, P., De Angelis, D., et al. (2003). Functional outcome of ischemic and hemorrhagic stroke patients after inpatient rehabilitation: a matched comparison. *Stroke*, 34(12), 2861-2865.
- Paolucci, S., Antonucci, G., Grasso, M. G., Morelli, D., Troisi, E., Coiro, P., et al. (2000). Early versus delayed inpatient stroke rehabilitation: a matched comparison conducted in Italy. *Arch Phys Med Rehabil*, 81(6), 695-700.

- Paolucci, S., Antonucci, G., Grasso, M. G., Morelli, D., Troisi, E., Coiro, P., et al. (2001). Post-stroke depression, antidepressant treatment and rehabilitation results. A case-control study. *Cerebrovasc Dis*, 12(3), 264-271.
- Paolucci, S., Antonucci, G., Grasso, M. G., & Pizzamiglio, L. (2001). The role of unilateral spatial neglect in rehabilitation of right brain-damaged ischemic stroke patients: a matched comparison. *Arch Phys Med Rehabil*, 82(6), 743-749.
- Paolucci, S., Antonucci, G., Guariglia, C., Magnotti, L., Pizzamiglio, L., & Zoccolotti, P. (1996). Facilitatory effect of neglect rehabilitation on the recovery of left hemiplegic stroke patients: a cross-over study. *J Neurol*, 243(4), 308-314.
- Paolucci, S., Antonucci, G., Pratesi, L., Traballesi, M., Grasso, M. G., & Lubich, S. (1999). Poststroke depression and its role in rehabilitation of inpatients. *Arch Phys Med Rehabil*, 80(9), 985-990.
- Paolucci, S., Antonucci, G., Pratesi, L., Traballesi, M., Lubich, S., & Grasso, M. G. (1998). Functional outcome in stroke inpatient rehabilitation: predicting no, low and high response patients. *Cerebrovasc Dis*, 8(4), 228-234.
- Paolucci, S., Antonucci, G., Troisi, E., Bragoni, M., Coiro, P., De Angelis, D., et al. (2003). Aging and stroke rehabilitation. a case-comparison study. *Cerebrovasc Dis*, 15(1-2), 98-105.
- Paolucci, S., Caltagirone, C., Mastrelli, F., Sandrini, G., & Nappi, G. (2003). Planning availability in stroke rehabilitation units. *Funct Neurol*, 18(4), 191-194.
- Paolucci, S., Grasso, M. G., Antonucci, G., Bragoni, M., Troisi, E., Morelli, D., et al. (2001). Mobility status after inpatient stroke rehabilitation: 1-year follow-up and prognostic factors. *Arch Phys Med Rehabil*, 82(1), 2-8.
- Paolucci, S., Grasso, M. G., Antonucci, G., Troisi, E., Morelli, D., Coiro, P., et al. (2000). One-year follow-up in stroke patients discharged from rehabilitation hospital. *Cerebrovasc Dis*, 10(1), 25-32.
- Paolucci, S., Matano, A., Bragoni, M., Coiro, P., De Angelis, D., Fusco, F. R., et al. (2005). Rehabilitation of left brain-damaged ischemic stroke patients: the role of comprehension language deficits. A matched comparison. *Cerebrovasc Dis*, 20(5), 400-406.
- Paolucci, S., Traballesi, M., Emberti Gialloreti, L., Pratesi, L., Lubich, S., Salvia, A., et al. (1998). Post-stroke rehabilitation: an economic or medical priority? Current issues and prospects in light of new legislative regulations. *Ital J Neurol Sci*, 19(1), 25-31.
- Paolucci, S., Traballesi, M., Gialloreti, L. E., Pratesi, L., Lubich, S., Antonucci, G., et al. (1998). Changes in functional outcome in inpatient stroke rehabilitation resulting from new health policy regulations in Italy. *Eur J Neurol*, 5(1), 17-22.
- Patel, A. T., Duncan, P. W., Lai, S. M., & Studenski, S. (2000). The relation between impairments and functional outcomes poststroke. *Arch Phys Med Rehabil*, 81(10), 1357-1363.
- Perennou, D. (2005). Weight bearing asymmetry in standing hemiparetic patients. *J Neurol Neurosurg Psychiatry*, 76(5), 621.
- Perennou, D. A., Amblard, B., Laassel el, M., Benaim, C., Herisson, C., & Pelissier, J. (2002). Understanding the pusher behavior of some stroke patients with spatial deficits: a pilot study. *Arch Phys Med Rehabil*, 83(4), 570-575.

- Perennou, D. A., Leblond, C., Amblard, B., Micallef, J. P., Herisson, C., & Pelissier, J. Y. (2001). Transcutaneous electric nerve stimulation reduces neglect-related postural instability after stroke. *Arch Phys Med Rehabil*, 82(4), 440-448.
- Perry, S. B., Marchetti, G. F., Wagner, S., & Wilton, W. (2006). Predicting caregiver assistance required for sit-to-stand following rehabilitation for acute stroke. *J Neurol Phys Ther*, 30(1), 2-11.
- Platz, T. (2003). [Evidence-based arm rehabilitation--a systematic review of the literature]. *Nervenarzt*, 74(10), 841-849.
- Platz, T., Bock, S., & Prass, K. (2001). Reduced skilfulness of arm motor behaviour among motor stroke patients with good clinical recovery: does it indicate reduced automaticity? Can it be improved by unilateral or bilateral training? A kinematic motion analysis study. *Neuropsychologia*, 39(7), 687-698.
- Platz, T., & Denzler, P. (2002). Do psychological variables modify motor recovery among patients with mild arm paresis after stroke or traumatic brain injury who receive the Arm Ability Training? *Restor Neurol Neurosci*, 20(1-2), 37-49.
- Platz, T., Denzler, P., Kaden, B., & Mauritz, K. H. (1994). Motor learning after recovery from hemiparesis. *Neuropsychologia*, 32(10), 1209-1223.
- Platz, T., Hesse, S., & Mauritz, K. H. (1999). Motor rehabilitation after traumatic brain injury and stroke - Advances in assessment and therapy. *Restor Neurol Neurosci*, 14(2-3), 161-166.
- Platz, T., Kim, I. H., Engel, U., Kieselbach, A., & Mauritz, K. H. (2002). Brain activation pattern as assessed with multi-modal EEG analysis predict motor recovery among stroke patients with mild arm paresis who receive the Arm Ability Training. *Restor Neurol Neurosci*, 20(1-2), 21-35.
- Platz, T., Kim, I. H., Engel, U., Pinkowski, C., Eickhof, C., & Kutzner, M. (2005). Amphetamine fails to facilitate motor performance and to enhance motor recovery among stroke patients with mild arm paresis: interim analysis and termination of a double blind, randomised, placebo-controlled trial. *Restor Neurol Neurosci*, 23(5-6), 271-280.
- Platz, T., Pinkowski, C., van Wijck, F., Kim, I. H., di Bella, P., & Johnson, G. (2005). Reliability and validity of arm function assessment with standardized guidelines for the Fugl-Meyer Test, Action Research Arm Test and Box and Block Test: a multicentre study. *Clin Rehabil*, 19(4), 404-411.
- Platz, T., Prass, K., Denzler, P., Bock, S., & Mauritz, K. H. (1999). Testing a motor performance series and a kinematic motion analysis as measures of performance in high-functioning stroke patients: reliability, validity, and responsiveness to therapeutic intervention. *Arch Phys Med Rehabil*, 80(3), 270-277.
- Platz, T., Winter, T., Muller, N., Pinkowski, C., Eickhof, C., & Mauritz, K. H. (2001). Arm ability training for stroke and traumatic brain injury patients with mild arm paresis: a single-blind, randomized, controlled trial. *Arch Phys Med Rehabil*, 82(7), 961-968.
- Plautz, E. J., Barbay, S., Frost, S. B., Friel, K. M., Dancause, N., Zoubina, E. V., et al. (2003). Post-infarct cortical plasticity and behavioral recovery using concurrent cortical stimulation and rehabilitative training: a feasibility study in primates. *Neurology Res*, 25(8), 801-810.

- Pohl, M., Mehrholz, J., Ritschel, C., & Ruckriem, S. (2002). Speed-dependent treadmill training in ambulatory hemiparetic stroke patients: a randomized controlled trial. *Stroke, 33*(2), 553-558.
- Pohl, P. S., McDowd, J. M., Filion, D., Richards, L. G., & Stiers, W. (2006). Implicit learning of a motor skill after mild and moderate stroke. *Clin Rehabil, 20*(3), 246-253.
- Pohl, P. S., McDowd, J. M., Filion, D. L., Richards, L. G., & Stiers, W. (2001). Implicit learning of a perceptual-motor skill after stroke. *Phys Ther, 81*(11), 1780-1789.
- Pohl, P. S., & Winstein, C. J. (1999). Practice effects on the less-affected upper extremity after stroke. *Arch Phys Med Rehabil, 80*(6), 668-675.
- Potempa, K., Lopez, M., Braun, L. T., Szidon, J. P., Fogg, L., & Tincknell, T. (1995). Physiological outcomes of aerobic exercise training in hemiparetic stroke patients. *Stroke, 26*(1), 101-105.
- Potter, K. (1998). Application of a preferred practice pattern for a patient with a stroke. *Physical Therapy Case Reports, 1*(6), 280-290.
- Powell, J., Pandyan, A. D., Granat, M., Cameron, M., & Stott, D. J. (1999). Electrical stimulation of wrist extensors in poststroke hemiplegia. *Stroke, 30*(7), 1384-1389.
- Pulvermuller, F., Neininger, B., Elbert, T., Mohr, B., Rockstroh, B., Koebbel, P., et al. (2001). Constraint-induced therapy of chronic aphasia after stroke. *Stroke, 32*(7), 1621-1626.
- Reiter, F., Danni, M., Lagalla, G., Ceravolo, G., & Provinciali, L. (1998). Low-dose botulinum toxin with ankle taping for the treatment of spastic equinovarus foot after stroke. *Arch Phys Med Rehabil, 79*(5), 532-535.
- Richards, C. L., Malouin, F., & Dean, C. (1999). Gait in stroke: assessment and rehabilitation. *Clin Geriatr Med, 15*(4), 833-855.
- Richards, C. L., Malouin, F., Wood-Dauphinee, S., Williams, J. I., Bouchard, J. P., & Brunet, D. (1993). Task-specific physical therapy for optimization of gait recovery in acute stroke patients. *Arch Phys Med Rehabil, 74*(6), 612-620.
- Richards, L., & Pohl, P. (1999). Therapeutic interventions to improve upper extremity recovery and function. *Clin Geriatr Med, 15*(4), 819-832.
- Richards, L. G., Latham, N. K., Jette, D. U., Rosenberg, L., Smout, R. J., & DeJong, G. (2005). Characterizing occupational therapy practice in stroke rehabilitation. *Arch Phys Med Rehabil, 86*(12 Suppl 2), S51-S60.
- Rieck, M., & Moreland, J. (2005). The Orpington Prognostic Scale for patients with stroke: reliability and pilot predictive data for discharge destination and therapeutic services. *Disabil Rehabil, 27*(23), 1425-1433.
- Rijntjes, M., Hobbeling, V., Hamzei, F., Dohse, S., Ketels, G., Liepert, J., et al. (2005). Individual factors in constraint-induced movement therapy after stroke. *Neurorehabil Neural Repair, 19*(3), 238-249.
- Rimmer, J. H., & Wang, E. (2005). Aerobic exercise training in stroke survivors. *Top Stroke Rehabil, 12*(1), 17-30.
- Ro, T., Noser, E., Boake, C., Johnson, R., Gaber, M., Speroni, A., et al. (2006). Functional reorganization and recovery after constraint-induced movement therapy in subacute stroke: case reports. *Neurocase, 12*(1), 50-60.

- Robertson, I. H., Tegner, R., Tham, K., Lo, A., & Nimmo-Smith, I. (1995). Sustained attention training for unilateral neglect: theoretical and rehabilitation implications. *J Clin Exp Neuropsychol*, 17(3), 416-430.
- Roderick, P., Low, J., Day, R., Peasgood, T., Mullee, M. A., Turnbull, J. C., et al. (2001). Stroke rehabilitation after hospital discharge: a randomized trial comparing domiciliary and day-hospital care. *Age Ageing*, 30(4), 303-310.
- Rodgers, H. (2000). The scope for rehabilitation in severely disabled stroke patients. *Disabil Rehabil*, 22(4), 199-200; discussion 205.
- Rose, D. K., & Winstein, C. J. (2004). Bimanual training after stroke: are two hands better than one? *Top Stroke Rehabil*, 11(4), 20-30.
- Rosen, E., Sunnerhagen, K. S., & Kreuter, M. (2005). Fear of falling, balance, and gait velocity in patients with stroke. *Physiother Theory Pract*, 21(2), 113-120.
- Rosenfalck, A., & Andreassen, S. (1980). Impaired regulation of force and firing pattern of single motor units in patients with spasticity. *J Neurol Neurosurg Psychiatry*, 43(10), 907-916.
- Sahrman, S. A. N., B. J. . (1977). The relationship of voluntary movement to spasticity in the upper motor neuron syndrome. *Transactions Of The American Neurological Association* 102, 108-112.
- Salbach, N. M., Mayo, N. E., Robichaud-Ekstrand, S., Hanley, J. A., Richards, C. L., & Wood-Dauphinee, S. (2005). The effect of a task-oriented walking intervention on improving balance self-efficacy poststroke: a randomized, controlled trial. *J Am Geriatr Soc*, 53(4), 576-582.
- Salbach, N. M., Mayo, N. E., Robichaud-Ekstrand, S., Hanley, J. A., Richards, C. L., & Wood-Dauphinee, S. (2006). Balance self-efficacy and its relevance to physical function and perceived health status after stroke. *Arch Phys Med Rehabil*, 87(3), 364-370.
- Salbach, N. M., Mayo, N. E., Wood-Dauphinee, S., Hanley, J. A., Richards, C. L., & Cote, R. (2004). A task-orientated intervention enhances walking distance and speed in the first year post stroke: a randomized controlled trial. *Clin Rehabil*, 18(5), 509-519.
- Salbach, N. M., Mayo, N. E., Wood-Dauphinee, S., Hanley, J. A., Richards, C. L., & Cote, R. (2004). A task-orientated intervention enhances walking distance and speed in the first year post stroke: a randomized controlled trial. *Clin Rehabil*, 18(5), 509-519.
- Salter, K., Jutai, J. W., Teasell, R., Foley, N. C., Bitensky, J., & Bayley, M. (2005). Issues for selection of outcome measures in stroke rehabilitation: ICF activity. *Disabil Rehabil*, 27(6), 315-340.
- Saunders, D. H., Greig, C. A., Young, A., & Mead, G. E. (2004). Physical fitness training for stroke patients. *Stroke*, 35(9), 2235.
- Scelsi, R., Lotta, S., Lommi, G., Poggi, P., & Marchetti, C. (1984). Hemiplegic atrophy. Morphological findings in the anterior tibial muscle of patients with cerebral vascular accidents. *Acta Neuropathol (Berl)*, 62(4), 324-331.
- Scheidtmann, K., Fries, W., Muller, F., & Koenig, E. (2001). Effect of levodopa in combination with physiotherapy on functional motor recovery after stroke: a prospective, randomised, double-blind study. *Lancet*, 358(9284), 787-790.

- Schmidt J, D.-C. J., Dombovy M. (1999). Severe Disability After Stroke: Outcome After Inpatient Rehabilitation *Neurorehabilitation and Neural Repair* 13(199-203).
- Schmidt, R. A. (1990). Motor learning principles for physical therapy. In M. Lister (Ed.), *Contemporary Management of Motor Control Problems Proceedings of the IISTEP Conference*. Alexandria, VA: Foundation for Physical Therapy, Inc. .
- Schmit, B. D., Dewald, J. P., & Rymer, W. Z. (2000). Stretch reflex adaptation in elbow flexors during repeated passive movements in unilateral brain-injured patients. *Arch Phys Med Rehabil*, 81(3), 269-278.
- Schreiber, J., Sober, L., Banta, L., Glassbrenner, L., Haman, J. Mistry, N. & Olesinski, K. (2000). Application of Motor Learning Principles with Stroke Survivors. *Occupational Therapy in Health Care*, 13(1), 23-42.
- Segura, R. P., & Sahgal, V. (1981). Hemiplegic atrophy: electrophysiological and morphological studies. *Muscle Nerve*, 4(3), 246-248.
- Sharp, S. A., & Brouwer, B. J. (1997). Isokinetic strength training of the hemiparetic knee: effects on function and spasticity. *Arch Phys Med Rehabil*, 78(11), 1231-1236.
- Shaughnessy, M., Michael, K. M., Sorkin, J. D., & Macko, R. F. (2005). Steps after stroke: capturing ambulatory recovery. *Stroke*, 36(6), 1305-1307.
- Shepherd, R. B. (2001). Exercise and training to optimize functional motor performance in stroke: driving neural reorganization? *Neural Plast*, 8(1-2), 121-129.
- Slager, U. T., Hsu, J. D., & Jordan, C. (1985). Histochemical and morphometric changes in muscles of stroke patients. *Clin Orthop Relat Res*(199), 159-168.
- Smith, G. V., Silver, K. H., Goldberg, A. P., & Macko, R. F. (1999). "Task-oriented" exercise improves hamstring strength and spastic reflexes in chronic stroke patients. *Stroke*, 30(10), 2112-2118.
- Stanley, P. (1996). Effects of computer assisted visual scanning training in the treatment of visual neglect: three case studies. *Physical and Occupational Therapy in Geriatrics*, 30(10), 2112-2118.
- Stein, J. (2004). Motor recovery strategies after stroke. *Top Stroke Rehabil*, 11(2), 12-22.
- Stein, J., Krebs, H. I., Frontera, W. R., Fasoli, S. E., Hughes, R., & Hogan, N. (2004). Comparison of two techniques of robot-aided upper limb exercise training after stroke. *Am J Phys Med Rehabil*, 83(9), 720-728.
- Sterr, A. (2004). Training-based interventions in motor rehabilitation after stroke: theoretical and clinical considerations. *Behav Neurol*, 15(3-4), 55-63.
- Sterr, A., Elbert, T., Berthold, I., Kolbel, S., Rockstroh, B., & Taub, E. (2002). Longer versus shorter daily constraint-induced movement therapy of chronic hemiparesis: an exploratory study. *Arch Phys Med Rehabil*, 83(10), 1374-1377.
- Stevens, J. A., & Stoykov, M. E. (2003). Using motor imagery in the rehabilitation of hemiparesis. *Arch Phys Med Rehabil*, 84(7), 1090-1092.
- Stineman, M. G., Fiedler, R. C., Granger, C. V., & Maislin, G. (1998). Functional task benchmarks for stroke rehabilitation. *Arch Phys Med Rehabil*, 79(5), 497-504.
- Studenski, S., Duncan, P. W., Perera, S., Reker, D., Lai, S. M., & Richards, L. (2005). Daily functioning and quality of life in a randomized controlled trial of therapeutic exercise for subacute stroke survivors. *Stroke*, 36(8), 1764-1770.

- Sullivan, J. E., & Hedman, L. D. (2004). A home program of sensory and neuromuscular electrical stimulation with upper-limb task practice in a patient 5 years after a stroke. *Phys Ther*, 84(11), 1045-1054.
- Sullivan, K. J., Knowlton, B. J., & Dobkin, B. H. (2002). Step training with body weight support: effect of treadmill speed and practice paradigms on poststroke locomotor recovery. *Arch Phys Med Rehabil*, 83(5), 683-691.
- Suputtitada, A., Suwanwela, N. C., & Tumvitee, S. (2004). Effectiveness of constraint-induced movement therapy in chronic stroke patients. *J Med Assoc Thai*, 87(12), 1482-1490.
- Suputtitada, A., Yooktanan, P., & Rarerng-Ying, T. (2004). Effect of partial body weight support treadmill training in chronic stroke patients. *J Med Assoc Thai*, 87 Suppl 2, S107-111.
- Suzuki, K., Yamada, Y., Handa, T., Imada, G., Iwaya, T., & Nakamura, R. (1999). Relationship between stride length and walking rate in gait training for hemiparetic stroke patients. *Am J Phys Med Rehabil*, 78(2), 147-152.
- Suzuki, T., Sonoda, S., Misawa, K., Saitoh, E., Shimizu, Y., & Kotake, T. (2005). Incidence and consequence of falls in inpatient rehabilitation of stroke patients. *Exp Aging Res*, 31(4), 457-469.
- Swinnen, S. P., Debaere, F., Puttemans, V., Vangheluwe, S., & Kiekens, C. (2002). Coordination deficits on the ipsilesional side after unilateral stroke: the effect of practice on nonisodirectional ipsilateral coordination. *Acta Psychol (Amst)*, 110(2-3), 305-320.
- Tang, A., & Rymer, W. Z. (1981). Abnormal force-EMG relations in paretic limbs of hemiparetic human subjects. *J Neurol Neurosurg Psychiatry*, 44(8), 690-698.
- Tangeman, P. T., Banaitis, D. A., & Williams, A. K. (1990). Rehabilitation of chronic stroke patients: changes in functional performance. *Arch Phys Med Rehabil*, 71(11), 876-880.
- Tarkka, I. M., Pitkanen, K., & Sivenius, J. (2005). Paretic hand rehabilitation with constraint-induced movement therapy after stroke. *Am J Phys Med Rehabil*, 84(7), 501-505.
- Taub, E., Miller, N.E., Novack, T. A., Cook, E. W., Fleming, W. C. Nepomuceno, C. S. et al. (1993). Technique to improve chronic motor deficit after stroke. *Archives of Physical Medicine and Rehabilitation*, 74, 347-354.
- Taub, E., Crago, J. E., Burgio, L. D. , Groomes, T. E. , Cook, E. W., Deluca, S. C., et al. (1994). An operant approach to rehabilitaiton medicine: overcoming learned non-use by shaping. *Journal of Experimental Analysis of Behavior*, 61, 281-293.
- Taub, E., & Wolf, S. (1997). Constraint induced movement techniques to facilitate upper extremity use in stroke patients. *Topics in Stroke Rehabilitation*, 3(4), 38-61.
- Taub, E. (2000). Constraint-induced movement therapy and massed practice. *Stroke*, 31(4), 986-988.
- Taub, E. (2004). Harnessing brain plasticity through behavioral techniques to produce new treatments in neurorehabilitation. *Am Psychol*, 59(8), 692-704.
- Taub, E., & Morris, D. M. (2001). Constraint-induced movement therapy to enhance recovery after stroke. *Curr Atheroscler Rep*, 3(4), 279-286.

- Taub, E., & Uswatte, G. (2003). Constraint-induced movement therapy: bridging from the primate laboratory to the stroke rehabilitation laboratory. *J Rehabil Med*(41 Suppl), 34-40.
- Taub, E., Uswatte, G., King, D. K., Morris, D., Crago, J. E., & Chatterjee, A. (2006). A placebo-controlled trial of constraint-induced movement therapy for upper extremity after stroke. *Stroke*, 37(4), 1045-1049.
- Taub, E., Uswatte, G., & Morris, D. M. (2003). Improved motor recovery after stroke and massive cortical reorganization following Constraint-Induced Movement therapy. *Phys Med Rehabil Clin N Am*, 14(1 Suppl), S77-91, ix.
- Taub, E., Uswatte, G., & Pidikiti, R. (1999). Constraint-Induced Movement Therapy: a new family of techniques with broad application to physical rehabilitation--a clinical review. *J Rehabil Res Dev*, 36(3), 237-251.
- Taylor, D., Luxford, B., Lawson, H., & Anderson, F. . (2000). Neuromuscular electrical stimulation on joint range of motion in hemiplegia: A single case study. *New Zealand Journal of Physiotherapy*, 28(1), 17-22.
- Teasell, R. (2003). Stroke recovery and rehabilitation. *Stroke*, 34(2), 365-366.
- Teasell, R., Bayona, N. A., & Bitensky, J. (2005). Plasticity and reorganization of the brain post stroke. *Top Stroke Rehabil*, 12(3), 11-26.
- Teasell, R., Bitensky, J., Foley, N., & Bayona, N. A. (2005). Training and stimulation in post stroke recovery brain reorganization. *Top Stroke Rehabil*, 12(3), 37-45.
- Teasell, R., Bitensky, J., Salter, K., & Bayona, N. A. (2005). The role of timing and intensity of rehabilitation therapies. *Top Stroke Rehabil*, 12(3), 46-57.
- Teasell, R., McRae, M., Foley, N., & Bhardwaj, A. (2002). The incidence and consequences of falls in stroke patients during inpatient rehabilitation: factors associated with high risk. *Arch Phys Med Rehabil*, 83(3), 329-333.
- Teasell, R. W., Bhogal, S. K., Foley, N. C., & Speechley, M. R. (2003). Gait retraining post stroke. *Top Stroke Rehabil*, 10(2), 34-65.
- Teasell, R. W., Foley, N. C., Bhogal, S. K., Chakraverty, R., & Bluvol, A. (2005). A rehabilitation program for patients recovering from severe stroke. *Can J Neurol Sci*, 32(4), 512-517.
- Teasell, R. W., Foley, N. C., Bhogal, S. K., & Speechley, M. R. (2003). Early supported discharge in stroke rehabilitation. *Top Stroke Rehabil*, 10(2), 19-33.
- Teasell, R. W., Foley, N. C., Bhogal, S. K., & Speechley, M. R. (2003). An evidence-based review of stroke rehabilitation. *Top Stroke Rehabil*, 10(1), 29-58.
- Teasell, R. W., Jutai, J. W., Bhogal, S. K., & Foley, N. C. (2003). Research gaps in stroke rehabilitation. *Top Stroke Rehabil*, 10(1), 59-70.
- Teasell, R. W., & Kalra, L. (2004). What's new in stroke rehabilitation. *Stroke*, 35(2), 383-385.
- Teasell, R. W., & Kalra, L. (2005). What's new in stroke rehabilitation: back to basics. *Stroke*, 36(2), 215-217.
- Teasell, R. W., McRae, M. P., Foley, N., & Bhardwaj, A. (2001). Physical and functional correlations of ankle-foot orthosis use in the rehabilitation of stroke patients. *Arch Phys Med Rehabil*, 82(8), 1047-1049.
- Teixeira da Cunha Filho, I., Lim, P. A., Qureshy, H., Henson, H., Monga, T., & Protas, E. J. (2001). A comparison of regular rehabilitation and regular rehabilitation with

- supported treadmill ambulation training for acute stroke patients. *J Rehabil Res Dev*, 38(2), 245-255.
- Teixeira-Salmela, L. F., Nadeau, S., McBride, I., & Olney, S. J. (2001). Effects of muscle strengthening and physical conditioning training on temporal, kinematic and kinetic variables during gait in chronic stroke survivors. *J Rehabil Med*, 33(2), 53-60.
- Teixeira-Salmela, L. F., Olney, S. J., Nadeau, S., & Brouwer, B. (1999). Muscle strengthening and physical conditioning to reduce impairment and disability in chronic stroke survivors. *Arch Phys Med Rehabil*, 80(10), 1211-1218.
- Tham, K., Borell, L., & Gustavsson, A. (2000). The discovery of disability: a phenomenological study of unilateral neglect. *Am J Occup Ther*, 54(4), 398-406.
- Tham, K., Ginsburg, E., Fisher, A. G., & Tegner, R. (2001). Training to improve awareness of disabilities in clients with unilateral neglect. *Am J Occup Ther*, 55(1), 46-54.
- Tham, K., & Kielhofner, G. (2003). Impact of the social environment on occupational experience and performance among persons with unilateral neglect. *Am J Occup Ther*, 57(4), 403-412.
- Tham, K., & Tegner, R. (1997). Video feedback in the rehabilitation of patients with unilateral neglect. *Arch Phys Med Rehabil*, 78(4), 410-413.
- Thaut, M. H., Kenyon, G. P., Hurt, C. P., McIntosh, G. C., & Hoemberg, V. (2002). Kinematic optimization of spatiotemporal patterns in paretic arm training with stroke patients. *Neuropsychologia*, 40(7), 1073-1081.
- Thaut, M. H., McIntosh, G. C., & Rice, R. R. (1997). Rhythmic facilitation of gait training in hemiparetic stroke rehabilitation. *J Neurol Sci*, 151(2), 207-212.
- Thielman, G. T., Dean, C. M., & Gentile, A. M. (2004). Rehabilitation of reaching after stroke: task-related training versus progressive resistive exercise. *Arch Phys Med Rehabil*, 85(10), 1613-1618.
- Toso, V., Gandolfo, C., Paolucci, S., Provinciali, L., Torta, R., & Grassivaro, N. (2004). Post-stroke depression: research methodology of a large multicentre observational study (DESTRO). *Neurol Sci*, 25(3), 138-144.
- Troisi, E., Paolucci, S., Silvestrini, M., Matteis, M., Vernieri, F., Grasso, M. G., et al. (2002). Prognostic factors in stroke rehabilitation: the possible role of pharmacological treatment. *Acta Neurol Scand*, 105(2), 100-106.
- Trueblood, P. R. (2001). Partial body weight treadmill training in persons with chronic stroke. *NeuroRehabilitation*, 16(3), 141-153.
- Trueblood, P. R., Walker, J. M., Perry, J., & Gronley, J. K. (1989). Pelvic exercise and gait in hemiplegia. *Phys Ther*, 69(1), 18-26.
- Turton, A., & Pomeroy, V. (2002). When should upper limb function be trained after stroke? Evidence for and against early intervention. *NeuroRehabilitation*, 17(3), 215-224.
- Turton, A. J., & Butler, S. R. (2001). Referred sensations following stroke. *Neurocase*, 7(5), 397-405.
- van der Lee, J. H. (2001). Constraint-induced therapy for stroke: more of the same or something completely different? *Curr Opin Neurol*, 14(6), 741-744.
- van der Lee, J. H. (2003). Constraint-induced movement therapy: some thoughts about theories and evidence. *J Rehabil Med*(41 Suppl), 41-45.

- van der Lee, J. H., Wagenaar, R. C., Lankhorst, G. J., Vogelaar, T. W., Deville, W. L., & Bouter, L. M. (1999). Forced use of the upper extremity in chronic stroke patients: results from a single-blind randomized clinical trial. *Stroke*, 30(11), 2369-2375.
- van Vliet, P. M., Lincoln, N. B., & Foxall, A. (2005). Comparison of Bobath based and movement science based treatment for stroke: a randomised controlled trial. *J Neurol Neurosurg Psychiatry*, 76(4), 503-508.
- Vattanasilp, W., & Ada, L. (1999). The relationship between clinical and laboratory measures of spasticity. *Aust J Physiother*, 45(2), 135-139.
- Vattanasilp, W., Ada, L., & Crosbie, J. (2000). Contribution of thixotropy, spasticity, and contracture to ankle stiffness after stroke. *J Neurol Neurosurg Psychiatry*, 69(1), 34-39.
- Vearrier, L. A., Langan, J., Shumway-Cook, A., & Woollacott, M. (2005). An intensive massed practice approach to retraining balance post-stroke. *Gait Posture*, 22(2), 154-163.
- Visintin, M., Barbeau, H., Korner-Bitensky, N., & Mayo, N. E. (1998). A new approach to retrain gait in stroke patients through body weight support and treadmill stimulation. *Stroke*, 29(6), 1122-1128.
- Volpe, B. T. (2001). Palliative treatment for stroke. *Neurol Clin*, 19(4), 903-920.
- Volpe, B. T., Ferraro, M., Krebs, H. I., & Hogan, N. (2002). Robotics in the rehabilitation treatment of patients with stroke. *Curr Atheroscler Rep*, 4(4), 270-276.
- Volpe, B. T., Ferraro, M., Lynch, D., Christos, P., Krol, J., Trudell, C., et al. (2005). Robotics and other devices in the treatment of patients recovering from stroke. *Curr Neurol Neurosci Rep*, 5(6), 465-470.
- Volpe, B. T., Krebs, H. I., & Hogan, N. (2001). Is robot-aided sensorimotor training in stroke rehabilitation a realistic option? *Curr Opin Neurol*, 14(6), 745-752.
- Volpe, B. T., Krebs, H. I., & Hogan, N. (2003). Robot-aided sensorimotor training in stroke rehabilitation. *Adv Neurol*, 92, 429-433.
- Volpe, B. T., Krebs, H. I., Hogan, N., Edelstein, O. L., Diels, C., & Aisen, M. (2000). A novel approach to stroke rehabilitation: robot-aided sensorimotor stimulation. *Neurology*, 54(10), 1938-1944.
- Volpe, B. T., Krebs, H. I., Hogan, N., Edelsteinn, L., Diels, C. M., & Aisen, M. L. (1999). Robot training enhanced motor outcome in patients with stroke maintained over 3 years. *Neurology*, 53(8), 1874-1876.
- Wagenaar, R. C., & Beek, W. J. (1992). Hemiplegic gait: a kinematic analysis using walking speed as a basis. *J Biomech*, 25(9), 1007-1015.
- Wagenaar, R. C., Meijer, O. G., van Wieringen, P. C., Kuik, D. J., Hazenberg, G. J., Lindeboom, J., et al. (1990). The functional recovery of stroke: a comparison between neuro-developmental treatment and the Brunnstrom method. *Scand J Rehabil Med*, 22(1), 1-8.
- Walker, C., Brouwer, B. J., & Culham, E. G. (2000). Use of visual feedback in retraining balance following acute stroke. *Phys Ther*, 80(9), 886-895.
- Walker, C. M., Sunderland, A., Sharma, J., & Walker, M. F. (2004). The impact of cognitive impairment on upper body dressing difficulties after stroke: a video analysis of patterns of recovery. *J Neurol Neurosurg Psychiatry*, 75(1), 43-48.

- Walker, M. F., & Lincoln, N. B. (1991). Factors influencing dressing performance after stroke. *J Neurol Neurosurg Psychiatry*, 54(8), 699-701.
- Wang, C. H., Hsieh, C. L., Dai, M. H., Chen, C. H., & Lai, Y. F. (2002). Inter-rater reliability and validity of the stroke rehabilitation assessment of movement (stream) instrument. *J Rehabil Med*, 34(1), 20-24.
- Wang, R. Y. (1994). Effect of proprioceptive neuromuscular facilitation on the gait of patients with hemiplegia of long and short duration. *Phys Ther*, 74(12), 1108-1115.
- Wang, R. Y., Chan, R. C., & Tsai, M. W. (2000). Effects of thoraco-lumbar electric sensory stimulation on knee extensor spasticity of persons who survived cerebrovascular accident (CVA). *J Rehabil Res Dev*, 37(1), 73-79.
- Wang, R. Y., Chen, H. I., Chen, C. Y., & Yang, Y. R. (2005). Efficacy of Bobath versus orthopaedic approach on impairment and function at different motor recovery stages after stroke: a randomized controlled study. *Clin Rehabil*, 19(2), 155-164.
- Weingarden, H. P., Zeilig, G., Heruti, R., Shemesh, Y., Ohry, A., Dar, A., et al. (1998). Hybrid functional electrical stimulation orthosis system for the upper limb: effects on spasticity in chronic stable hemiplegia. *Am J Phys Med Rehabil*, 77(4), 276-281.
- Weiss, A., Suzuki, T., Bean, J., & Fielding, R. A. (2000). High intensity strength training improves strength and functional performance after stroke. *Am J Phys Med Rehabil*, 79(4), 369-376; quiz 391-364.
- Welmer, A. K., von Arbin, M., Widen Holmqvist, L., & Sommerfeld, D. K. (2006). Spasticity and its association with functioning and health-related quality of life 18 months after stroke. *Cerebrovasc Dis*, 21(4), 247-253.
- Wendel-Vos, G. C., Schuit, A. J., Feskens, E. J., Boshuizen, H. C., Verschuren, W. M., Saris, W. H., et al. (2004). Physical activity and stroke. A meta-analysis of observational data. *Int J Epidemiol*, 33(4), 787-798.
- Werner, C., Bardeleben, A., Mauritz, K. H., Kirker, S., & Hesse, S. (2002). Treadmill training with partial body weight support and physiotherapy in stroke patients: a preliminary comparison. *Eur J Neurol*, 9(6), 639-644.
- Werner, R. A., & Kessler, S. (1996). Effectiveness of an intensive outpatient rehabilitation program for postacute stroke patients. *Am J Phys Med Rehabil*, 75(2), 114-120.
- Whitall, J., McCombe Waller, S., Silver, K. H., & Macko, R. F. (2000). Repetitive bilateral arm training with rhythmic auditory cueing improves motor function in chronic hemiparetic stroke. *Stroke*, 31(10), 2390-2395.
- Wiart, L., Come, A. B., Debelleix, X., Petit, H., Joseph, P. A., Mazaux, J. M., et al. (1997). Unilateral neglect syndrome rehabilitation by trunk rotation and scanning training. *Arch Phys Med Rehabil*, 78(4), 424-429.
- Winchester, P., & Querry, R. (2006). Robotic orthoses for body weight-supported treadmill training. *Phys Med Rehabil Clin N Am*, 17(1), 159-172.
- Wing, A. M., Lough, S., Turton, A., Fraser, C., & Jenner, J. R. (1990). Recovery of elbow function in voluntary positioning of the hand following hemiplegia due to stroke. *J Neurol Neurosurg Psychiatry*, 53(2), 126-134.

- Winstein, C. (2004). Why is the functional independence measure used to identify some rehabilitation needs in stroke survivors when there are better tools? *Physiother Res Int*, 9(4), 182-184.
- Winstein, C. J. (1991). Knowledge of results and motor learning--implications for physical therapy. *Phys Ther*, 71(2), 140-149.
- Winstein, C. J., Merians, A. S., & Sullivan, K. J. (1999). Motor learning after unilateral brain damage. *Neuropsychologia*, 37(8), 975-987.
- Winstein, C. J., Miller, J. P., Blanton, S., Taub, E., Uswatte, G., Morris, D., et al. (2003). Methods for a multisite randomized trial to investigate the effect of constraint-induced movement therapy in improving upper extremity function among adults recovering from a cerebrovascular stroke. *Neurorehabil Neural Repair*, 17(3), 137-152.
- Winstein, C. J., Pohl, P. S., & Lewthwaite, R. (1994). Effects of physical guidance and knowledge of results on motor learning: support for the guidance hypothesis. *Res Q Exerc Sport*, 65(4), 316-323.
- Winstein, C. J., Rose, D. K., Tan, S. M., Lewthwaite, R., Chui, H. C., & Azen, S. P. (2004). A randomized controlled comparison of upper-extremity rehabilitation strategies in acute stroke: A pilot study of immediate and long-term outcomes. *Arch Phys Med Rehabil*, 85(4), 620-628.
- Winward, C. E., Halligan, P. W., & Wade, D. T. (1999). Current practice and clinical relevance of somatosensory assessment after stroke. *Clin Rehabil*, 13(1), 48-55.
- Wittenberg, G. F., Chen, R., Ishii, K., Bushara, K. O., Eckloff, S., Croarkin, E., et al. (2003). Constraint-induced therapy in stroke: magnetic-stimulation motor maps and cerebral activation. *Neurorehabil Neural Repair*, 17(1), 48-57.
- Wolf, S. L., Lecraw, D. E., Barton, L. A., & Jann, B. B. (1989). Forced use of hemiplegic upper extremities to reverse the effect of learned nonuse among chronic stroke and head-injured patients. *Exp Neurol*, 104(2), 125-132.
- Wolf, S. L., Thompson, P. A., Morris, D. M., Rose, D. K., Winstein, C. J., Taub, E., et al. (2005). The EXCITE trial: attributes of the Wolf Motor Function Test in patients with subacute stroke. *Neurorehabil Neural Repair*, 19(3), 194-205.
- Wong, A. M., Pei, Y. C., Hong, W. H., Chung, C. Y., Lau, Y. C., & Chen, C. P. (2004). Foot contact pattern analysis in hemiplegic stroke patients: an implication for neurologic status determination. *Arch Phys Med Rehabil*, 85(10), 1625-1630.
- Wong, A. M., Su, T. Y., Tang, F. T., Cheng, P. T., & Liaw, M. Y. (1999). Clinical trial of electrical acupuncture on hemiplegic stroke patients. *Am J Phys Med Rehabil*, 78(2), 117-122.
- Wu, C. W., van Gelderen, P., Hanakawa, T., Yaseen, Z., & Cohen, L. G. (2005). Enduring representational plasticity after somatosensory stimulation. *Neuroimage*, 27(4), 872-884.
- Wu, C. Y., Wong, M. K., Lin, K. C., & Chen, H. C. (2001). Effects of task goal and personal preference on seated reaching kinematics after stroke. *Stroke*, 32(1), 70-76.
- Yang, Y. R., Yen, J. G., Wang, R. Y., Yen, L. L., & Lieu, F. K. (2005). Gait outcomes after additional backward walking training in patients with stroke: a randomized controlled trial. *Clin Rehabil*, 19(3), 264-273.

- Yavuzer, G., Kucudeveci, A., Arasil, T., & Elhan, A. (2001). Rehabilitation of stroke patients: clinical profile and functional outcome. *Am J Phys Med Rehabil*, 80(4), 250-255.
- Yelnik, A., Bonan, I., Debray, M., Lo, E., Gelbert, F., & Bussel, B. (1996). Changes in the execution of a complex manual task after ipsilateral ischemic cerebral hemispheric stroke. *Arch Phys Med Rehabil*, 77(8), 806-810.
- Yu, D. (2004). Shoulder pain in hemiplegia. *Phys Med Rehabil Clin N Am*, 15(3), vi-vii, 683-697.
- Yu, D. T., Chae, J., Walker, M. E., & Fang, Z. P. (2001). Percutaneous intramuscular neuromuscular electric stimulation for the treatment of shoulder subluxation and pain in patients with chronic hemiplegia: a pilot study. *Arch Phys Med Rehabil*, 82(1), 20-25.
- Yu, D. T., Chae, J., Walker, M. E., Kirsteins, A., Elovin, E. P., Flanagan, S. R., et al. (2004). Intramuscular neuromuscular electric stimulation for poststroke shoulder pain: a multicenter randomized clinical trial. *Arch Phys Med Rehabil*, 85(5), 695-704.
- Yu, Y. H., Wang, H. C., & Wang, Z. J. (1995). The effect of acupuncture on spinal motor neuron excitability in stroke patients. *Zhonghua Yi Xue Za Zhi (Taipei)*, 56(4), 258-263.
- Zorowitz, R. D. (2004). Road to recovery: drugs used in stroke rehabilitation. *Expert Rev Neurother*, 4(2), 219-231.