

1. Aho K, Harmsen P, Hatano S, Marquardsen J, Smirnov VE, Strasser T. Cerebrovascular disease in the community: results of a WHO collaborative study. *Bull World Health Organ* 1980;58:113–130.
2. Sacco RL, Kasner SE, Broderick JP, Caplan LR, Connors JJ, Culebras A, et al. An updated definition of stroke for the 21st century: a statement for healthcare professionals from the American Heart Association/American Stroke Association. *Stroke* 2013 Jul;44(7):2064-89.
3. Feigin VL, Lawes CM, Bennett DA, Anderson CS. Stroke epidemiology: a review of population-based studies of incidence, prevalence, and case-fatality in the late 20th century. *Lancet Neurol* 2003;2:43–53.
4. Feigin VL, Forouzanfar MH, Krishnamurthi R, Mensah GA, Connor M, Bennett DA, et al. Global Burden of Diseases, Injuries, and Risk Factors Study 2010 (GBD 2010) and the GBD Stroke Experts Group. Global and regional burden of stroke during 1990-2010: findings from the Global Burden of Disease Study 2010. *Lancet* 2014 Jan;383(9913):245-54.
5. Prasad K, Singhal KK. Stroke in young: an Indian perspective. *Neurol India* 2010 May-Jun;58(3):343-50.
6. Taylor FC, Kumar SK. Stroke in India factsheet. [Internet]; [Cited 2016 Apr 20]. Available from <http://www.sanecd.org/Updated%20Stroke%20Fact%20sheet%202012.pdf>
7. Pandian JD, Sudhan P. Stroke epidemiology and stroke care services in India. *J Stroke* 2013 Sep;15(3):128-34.
8. Renjen PN, Beg MA, Ahmad K. Epidemiological study of incidence and risk factors of Ischemic stroke subtypes according to Trial of ORG 10172 in acute stroke treatment criteria: A 3 years, hospital-based study. *Int J Med Public Health* 2015;5:50-4.

9. Kwakkel G, Kollen BJ, Wagenaar RC. Therapy Impact on Functional Recovery in Stroke Rehabilitation: A critical review of the literature. *Physiotherapy* 1999;85:377-391.
10. Evers SM, Struijs JN, Ament AJ, van Genugten ML, Jager JC, van denBos GA. International comparison of stroke cost studies. *Stroke* 2004;35:1209-15.
11. Pollock AS, Durward BR, Rowe PJ, Paul JP. What is balance? *Clin Rehabil* 2000 Aug;14(4):402-6.
12. Huxham FE, Goldie PA, Patla AE. Theoretical considerations in balance assessment. *Aust J Physiother* 2001;47(2):89-100.
13. Mancini M, Horak FB. The relevance of clinical balance assessment tools to differentiate balance deficits. *Eur J Phys Rehabil Med* 2010 Jun;46(2):239-48.
14. Rosén E, Sunnerhagen KS, KreuterM. Fear of falling, balance, and gait velocity in patients with stroke. *Physiother Theory Pract* 2005 Apr-Jun; 21(2):113-20.
15. Laufer Y, Schwarzmann R, Sivan D, Sprecher E. Postural control of patients with hemiparesis: force plates measurements based on the clinical sensory organization test. *Physiother Theory Pract* 2005 Jul-Sep;21(3):163-71.
16. Weerdesteyn V, de Niet M, van Duijnhoven HJ, Geurts AC. Falls in individuals with stroke. *J Rehabil Res Dev* 2008;45(8):1195-213.
17. Moriello C, Finch L, Mayo NE. Relationship between muscle strength and functional walking capacity among people with stroke. *J Rehabil Res Dev* 2011;48(3):267-75.

18. Hendrickson J, Patterson KK, Inness EL, McIlroy WE, Mansfield A. Relationship between asymmetry of quiet standing balance control and walking post-stroke. *Gait Posture* 2014 Jan;39(1):177-81.
19. Yanohara R, Teranishi T, Tomita Y, Tanino G, Ueno Y, Sonoda S. Recovery process of standing postural control in hemiplegia after stroke. *J Phys Ther Sci* 2014 Nov; 26(11):1761-5.
20. Ursin MH, Bergland A, Fure B, Torstad A, Tveit A, Ihle-Hansen H. Balance and Mobility as Predictors of Post-Stroke Cognitive Impairment. *Dement Geriatr Cogn Dis* 2015 May 29;5(2):203-11.
21. Carr J, Shepherd R. Chapter 2 Balance. *Stroke rehabilitation: guidelines for exercise and training to optimize motor skill*. London: Butterworth-Heinemann; 2003. p. 35-75.
22. Eng JJ, Tang PF. Gait training strategies to optimize walking ability in people with stroke: a synthesis of the evidence. *Expert Rev Neurother* 2007 Oct; 7(10):1417-36.
23. Dobkin BH. Clinical practice. Rehabilitation after stroke. *N Engl J Med* 2005; 352(16):1677—84.
24. Van de Port IG, Kwakkel G, Lindeman E. Community ambulation in patients with chronic stroke: How is it related to gait speed? *J Rehabil Med*. 2008; 40:23–27.
25. Patterson SL, Forrester LW, Rodgers MM, Ryan AS, Ivey FM, Sorkin JD, Macko RF. Determinants of walking function after stroke: differences by deficit severity. *Arch Phys Med Rehabil* 2007;88:115-9.
26. Awad LN, Reisman DS, Wright TR, Roos MA, Binder-Macleod SA. Maximum walking speed is a key determinant of long distance walking function after stroke. *Top Stroke Rehabil* 2014 Nov-Dec;21(6):502-9.

27. Lee KB, Lim SH, Ko EH, Kim YS, Lee KS, Hwang BY. Factors related to community ambulation in patients with chronic stroke. *Top Stroke Rehabil* 2015 Feb;22(1):63-71.
28. Mayo NE, Wood-Dauphinee S, Cote R, Durcan L, Carlton J. Activity, participation, and quality of life 6 months post-stroke. *Arch Phys Med Rehabil* 2002;83:1035–1042.
29. Alguren B, Fridlund B, Cieza A, Sunnerhagen KS, Christensson L. Factors associated with health-related quality of life after stroke: a 1-year prospective cohort study. *Neurorehabil Neural Repair* 2012;26:266–74.
30. Blennerhassett JM, Dite W, Ramage ER, Richmond ME. Changes in Balance and Walking From Stroke Rehabilitation to the Community: A Follow-Up Observational Study. *Arch Phys Med Rehabil* 2012;93:1782–87.
31. Patten C, Lexell J, Brown HE. Weakness and strength training in persons with post-stroke hemiplegia: rationale, method, and efficacy. *J Rehabil Res Dev* 2004 May;41(3A):293-312.
32. Adams RW, Gandevia SC, Skuse NF. The distribution of muscle weakness in upper motoneuron lesions affecting the lower limb. *Brain* 1990;113:1459–76.
33. Canning CG, Ada L, O'Dwyer NJ. Slowness to develop force contributes to weakness after stroke. *Arch Phys Med Rehabil* 1999; 80:66–70.
34. Ingles JL, Eskes GA, Phillips SJ. Fatigue after stroke. *Arch Phys Med Rehabil* 1999;80:173–8.
35. Beer RF, Given JD, Dewald JP. Task-dependent weakness at the elbow in patients with hemiparesis. *Arch Phys Med Rehabil* 1999;80(7):766–72.

36. Bohannon RW. Strength deficits also predict gait performance in patients with stroke. *Percept Mot Skills* 1991;73:146.
37. Bohannon RW, Andrews AW. Relationships between impairments in strength of limb muscle actions following stroke. *Percept Mot Skills* 1998;87:1327–30.
38. Kluding P, Gajewski B. Lower extremity strength differences predict activity limitations in people with chronic stroke. *Phys Ther* 2009; 89:73–81.
39. Langhorne P, Bernhardt J, Kwakkel G. Stroke rehabilitation. *Lancet* 2011; 377:1693–1702.
40. Pollock A, Baer G, Campbell P, Choo PL, Forster A, Morris J, Pomeroy VM, Langhorne P. Physical rehabilitation approaches for the recovery of function and mobility following stroke. *Cochrane Database Syst Rev* 2014 Apr;(4):CD001920.
41. Chan DY, Chan CC, Au DK. Motor relearning programme for stroke patients: a randomized controlled trial. *Clin Rehabil* 2006 Mar;20(3):191-200.
42. Hubbard IJ, Parsons MW, Neilson C, Carey LM. Task-specific training: evidence for and translation to clinical practice. *Occup Ther Int* 2009;16(34):175-89.
43. Rensink M, Schuurmans M, Lindeman E, Hafsteinsdóttir T. Task-oriented training in rehabilitation after stroke: systematic review. *J Adv Nurs* 2009 Apr;65(4):737-54.
44. Wevers L, van de Port I, Vermue M, Mead G, Kwakkel G. Effects of task-oriented circuit class training on walking competency after stroke: a systematic review. *Stroke* 2009 Jul;40(7):2450-9.

45. Mehrholz J, Elsner B, Werner C, Kugler J, Pohl M. Electromechanical-assisted training for walking after stroke. *Cochrane Database Syst Rev* 2013 Jul 25;(7):CD006185.
46. Mehrholz J, Pohl M, Elsner B. Treadmill training and body weight support for walking after stroke. *Cochrane Database Syst Rev* 2014 Jan 23;(1):CD002840.
47. Barclay RE, Stevenson TJ, Poluha W, Ripat J, Nett C, Srikesavan CS. Interventions for improving community ambulation in individuals with stroke. *Cochrane Database Syst Rev* 2015 Mar 13;(3):CD010200.
48. Levin MF, Kleim JA, Wolf SL. What do motor 'recovery' and 'compensation' mean in patients following stroke? *Neurorehabil Neural Repair* 2009;23:313-9.
49. Ekusheva E, Damulin I. Post-Stroke Rehabilitation: Importance of Neuroplasticity and Sensorimotor Integration Processes. *Neurosci Behav Physi* 2015;45(5):594-9.
50. Claflin ES, Krishnan C, Khot SP. Emerging treatments for motor rehabilitation after stroke. *Neurohospitalist* 2015 Apr; 5(2):77-88.
51. Takeuchi N, Izumi S. Rehabilitation with post-stroke motor recovery: a review with a focus on neural plasticity. *Stroke Res Treat* 2013; 2013:128641. doi:10.1155/2013/128641.
52. Kleim JA, Jones TA. Principles of experience-dependent neural plasticity: implications for rehabilitation after brain damage. *J Speech Lang Hear Res* 2008 Feb;51(1):S225-39.
53. Pandian JD, Joy SA, Justin M, Premkumar AJ, John J, George AD, Paul P. Impact of stroke unit care: an Indian perspective. *Int J Stroke* 2011 Aug;6(4):372-3.

54. Lang CE, Macdonald JR, Reisman DS, Boyd L, Jacobson KT, Schindler-Ivens SM, et al. Observation of amounts of movement practice provided during stroke rehabilitation. *Arch Phys Med Rehabil* 2009 Oct;90(10):1692-8.
55. Mulder T. Motor imagery and action observation: cognitive tools for rehabilitation. *J Neural Transm (Vienna)* 2007;114(10):1265-78.
56. Frykberg G, Vasa R. Neuroplasticity in action post-stroke: Challenges for physiotherapists. *European Journal of Physiotherapy* 2015; 17(2):56-65.
57. Lotze M, Halsband U. Motor imagery. *J Physiol Paris* 2006 Jun;99(4-6):386-95.
58. Jackson PL, Lafleur MF, Malouin F, Richards C, Doyon J. Potential role of mental practice using motor imagery in neurologic rehabilitation. *Arch Phys Med Rehabil* 2001 Aug; 82(8):1133-41.
59. Schuster C, Hilfiker R, Amft O, Scheidhauer A, Andrews B, Butler J, et al. Best practice for motor imagery: a systematic literature review on motor imagery training elements in five different disciplines. *BMC Med* 2011 Jun 17; 9:75. doi: 10.1186/1741-7015-9-75.
60. Fiori F, Sedda A, Ferrè ER, Toraldo A, Querzola M, Pasotti F, et al. Exploring motor and visual imagery in Amyotrophic Lateral Sclerosis. *Exp Brain Res* 2013 May; 226(4):537-47.
61. Fiori F, Sedda A, Ferrè ER, Toraldo A, Querzola M, Pasotti F, et al. Motor imagery in spinal cord injury patients: moving makes the difference. *J Neuropsychol* 2014 Sep; 8(2):199-215.
62. Johnson-Frey SH. Stimulation through simulation? Motor imagery and functional reorganization in hemiplegic stroke patients. *Brain Cogn* 2004 Jul; 55(2):328-31.

63. Butler AJ, Page SJ. Mental practice with motor imagery: evidence for motor recovery and cortical reorganization after stroke. *Arch Phys Med Rehabil* 2006 Dec; 87(12 Suppl 2):S2-11.
64. De Lange FP, Roelofs K, Toni I. Motor imagery: a window into the mechanisms and alterations of the motor system. *Cortex* 2008 May; 44(5):494-506.
65. Braun S, Kleynen M, Schols J, Schack T, Beurskens A, Wade D. Using mental practice in stroke rehabilitation: a framework. *Clin Rehabil* 2008 Jul;22(7):579-91.
66. El-Shennawy SA, El-Wishy AA. A systematic review of efficacy of mental practice in chronic stroke rehabilitation. *Egyptian Journal of Neurology, Psychiatry and Neurosurgery* 2012; 49(3):173-180.
67. Braun S, Kleynen M, van Heel T, Kruithof N, Wade D, Beurskens A. The effects of mental practice in neurological rehabilitation; a systematic review. *Front Hum Neurosci* 2013 Aug2;7:390. doi:10.3389/fnhum.2013.00390.
68. García Carrasco D, Aboitiz Cantalapiedra J. Effectiveness of motor imagery or mental practice in functional recovery after stroke: a systematic review. *Neurologia* 2016 Jan-Feb;31(1):43-52.
69. Ovend'eerdt TJ, Dawes H, Sackley C, Wade DT. Practical research-based guidance for motor imagery practice in neurorehabilitation. *Disabil Rehabil* 2012;34(25):2192-200.
70. Malouin F, Jackson PL, Richards CL. Towards the integration of mental practice in rehabilitation programs. A critical review. *Front Hum Neurosci* 2013 Sep19;7:576. doi: 10.3389/fnhum.2013.00576.
71. Wasay M, Khatri IA, Kaul S. Stroke in South Asian countries. *Nat Rev Neurol*. 2014 Mar;10(3):135-43.

-
72. World Health Organization (2014). Global status report on non-communicable diseases 2014.[Internet]; [Updated 2014 cited on 2016 June 10]. Available from <http://www.who.int/nmh/publications/ncd-status-report-2014/en/>

 73. Krishnamurthi RV, Moran AE, Feigin VL, Barker-Collo S, Norrving B, Mensah GA, et al. GBD 2013 Stroke Panel Experts Group. Stroke Prevalence, Mortality and Disability-Adjusted Life Years in Adults Aged 20-64 Years in 1990-2013: Data from the Global Burden of Disease 2013 Study. *Neuroepidemiology* 2015;45(3):190-202.

 74. World Health Organization. International Classification of Functioning, Disability and Health (ICF) Geneva: World Health Organization; 2001. [Internet]; [Cited on 2016 June 12]. Available from <http://www.who.int/classifications/icf/en/>

 75. Kostanjsek N. Use of The International Classification of Functioning, Disability and Health (ICF) as a conceptual framework and common language for disability statistics and health information systems. *BMC Public Health*. 2011 May31;11(Suppl 4):S3. doi: 10.1186/1471-2458-11-S4-S3.

 76. Stier-Jarmer M, Grill E, EwertT, Bartholomeyczik S, Finger M, Mokrusch T, et al. ICF Core Set for patients with neurological conditions in early post-acute rehabilitation facilities. *Disabil Rehabil* 2005;27:389–95.

 77. Geyh S, Cieza A, Schouten J, Dickson H, Frommelt P, Omar Z, et al. ICF core sets for stroke. *J Rehabil Med* 2004;(Suppl 44):135–41.

 78. Quintas R, Cerniauskaite M, Ajovalasit D, Sattin D, Boncoraglio G, Parati EA, et al. Describing functioning, disability, and health with the International Classification of Functioning, Disability, and Health Brief Core Set for Stroke. *Am J Phys Med Rehabil* 2012 Feb;91(13 suppl 1):S14-S21.

79. Shumway-Cook A, Woollacott M. Attentional demands and postural control: the effect of sensory context. *J Gerontol Biol Sci Med Sci* 2000;55:M10–M16.
80. De Oliveira CB, de Medeiros IR, Frota NA, Greters ME, Conforto AB. Balance control in hemiparetic stroke patients: main tools for evaluation. *J Rehabil Res Dev* 2008;45(8):1215-26.
81. Nichols DS: Balance retraining after stroke using force platform biofeedback. *Phys Ther* 1997;77:553–8.
82. Ng SSM. Contribution of subjective balance confidence on functional mobility in subjects with chronic stroke. *Disabil Rehabil* 2011;33(23-24):2291–8.
83. Schmid AA, Van Puymbroeck M, Altenburger PA, Dierks TA, Miller KK, Damush TM, et al. Balance and balance self-efficacy are associated with activity and participation after stroke: a cross-sectional study in people with chronic stroke. *Arch Phys Med Rehabil* 2012 Jun;93(6):1101-07.
84. Michael KM, Allen JK, Macko RF. Reduced ambulatory activity after stroke: the role of balance, gait, and cardiovascular fitness. *Arch Phys Med Rehabil* 2005 Aug; 86(8):1552-56.
85. Schmid AA, Van Puymbroeck M, Altenburger PA, Miller KK, Combs SA, Page SJ. Balance is associated with quality of life in chronic stroke. *Top Stroke Rehabil* 2013 Jul-Aug; 20(4):340-6.
86. Verma R, Arya KN, Sharma P, Garg RK. Understanding gait control in post-stroke: implications for management. *J Bodyw Mov Ther* 2012 Jan;16(1):14-21.
87. Shumway-Cook A, Patla AE, Stewart A, Ferrucci L, Ciol MA, Guralnik JM. Environmental demands associated with community mobility in older adults with and without mobility disabilities. *Phys Ther* 2002 Jul;82(7):670-81.

88. Beyaert C, Vasa R, Frykberg GE. Gait post-stroke: Pathophysiology and rehabilitation strategies. *Neurophysiol Clin*. 2015 Nov;45(4-5):335-55.
89. Bowden MG, Embry AE, Gregory CM. Physical therapy adjuvants to promote optimization of walking recovery after stroke. *Stroke Res Treat*. 2011;2011:601416. doi: 10.4061/2011/601416.
90. Signal NE. Strength training after stroke: rationale, evidence and potential implementation barriers for physiotherapists. *N Zeal J Physiotherapy* 2014; 42: 101–07.
91. Yang YR, Wang RY, Lin KH, Chu MY, Chan RC. Task-oriented progressive resistance strength training improves muscle strength and functional performance in individuals with stroke. *Clin Rehabil* 2006 Oct;20(10):860-70.
92. Bale M, Strand LI. Does functional strength training of the leg in subacute stroke improve physical performance? A pilot randomized controlled trial. *Clin Rehabil* 2008 Oct-Nov;22(10-11):911-21.
93. The WHOQOL Group. The World Health Organization Quality of Life assessment (WHOQOL): position paper from the world health organization. *Soc Sci Med* 1995;41(10): 1403-9.
94. Ware JE. Conceptualization and measurement of health-related quality of life: Comments on an evolving field. *Arch Phys Med Rehabil* 2003;84:43-51.
95. Gokkaya NK, Aras MD, Cakci A. Health-related quality of life of Turkish stroke survivors. *Int J Rehabil Res* 2005;283:229-35.
96. Gurcay E, Bal A, Cakci A. Health-related quality of life in first-ever stroke patients. *Ann Saudi Med* 2009;29:36–40.

97. Chen CM, Tsai CC, Chung CY, Chen CL, Wu KP, Chen HC. Potential predictors for health-related quality of life in stroke patients undergoing inpatient rehabilitation. *Health Qual Life Outcomes* 2015 Aug;13:118. doi:10.1186/s12955-015-0314-5.
98. Franceschini M, La Porta F, Agosti M, Massucci M. Is health-related-quality of life of stroke patients influenced by neurological impairments at one year after stroke? *Eur J Phys Rehabil Med* 2010;46:389–99.
99. Chen MD, Rimmer JH. Effects of exercise on quality of life in stroke survivors: a meta-analysis. *Stroke* 2011 Mar;42(3):832-7.
100. Newman M. The process of recovery after hemiplegia. *Stroke* 1972;3:702-10.
101. Page SJ, Gater DR, Bach-y-Rita P. Reconsidering the motor recovery plateau in stroke rehabilitation. *Arch Phys Med Rehabil* 2004;85:1377-81.
102. Duncan PW. Synthesis of intervention trials to improve motor recovery following stroke. *Top Stroke Rehabil* 1997;3:1-20.
103. Zheng X, Sun L, Yin D, Jia J, Zhao Z, Jiang Y, et al. The plasticity of intrinsic functional connectivity patterns associated with rehabilitation intervention in chronic stroke patients. *Neuroradiology* 2016 Apr;58(4):417-27.
104. Rossini PM, Calautti C, Pauri F, Baron JC. Post-stroke plastic reorganization in the adult brain. *Lancet Neurol* 2003 Aug;2(8):493-502.
105. Chen H, Epstein J, Stern E. Neural plasticity after acquired brain injury: evidence from functional neuroimaging. *PM R* 2010 Dec;2(12 Suppl 2):S306-12.

106. Kitago T, Krakauer JW. Motor learning principles for neurorehabilitation. *Handb Clin Neurol* 2013;110:93–103.
107. Shumway-Cook A, Woollacott MH. Motor control: issues and theories. In: Shumway-Cook A, Woollacott MH. *Motor control – translating research into clinical practice*. 4th ed. Baltimore, MD: Lippincott Williams & Wilkins; 2012. p. 3–20.
108. Winstein C, Lewthwaite R, Blanton SR, Wolf LB, Wishart L. Infusing motor learning research into neurorehabilitation practice: a historical perspective with case exemplar from the accelerated skill acquisition program. *J Neurol Phys Ther* 2014 Jul;38(3):190-200.
109. Corbetta D, Sirtori V, Moja L, Gatti R. Constraint-induced movement therapy in stroke patients: systematic review and meta-analysis. *Eur J Phys Rehabil Med* 2010;46(4):537-544.
110. Thieme H, Mehrholz J, Pohl M, Behrens J, Dohle C. Mirror therapy for improving motor function after stroke. *Cochrane Database Syst Rev* 2012 Mar14;(3):CD008449.
111. Muratori LM, Lamberg EM, Quinn L, Duff SV. Applying principles of motor learning and control to upper extremity rehabilitation. *Journal of hand therapy*: official journal of the American Society of Hand Therapists. 2013;26(2):94-103.
112. Krakauer JW. Motor learning: its relevance to stroke recovery and neurorehabilitation. *Curr Opin Neurol* 2006 Feb;19(1):84-90.
113. A.M.Gentile. Skill acquisition: action, movement and neuromotor processes. In: J.H. Carr and R.B. Shepherd. *Movement Sciences: Foundation for Physical Therapy in Rehabilitation*. 2nd eds, Aspen, Gaithersburg, Md, USA; 2000. p. 111–187.

114. Salbach NM, Mayo NE, Wood-Dauphinee S, Hanley JA, Richards CL, Cote R. A task-orientated intervention enhances walking distance and speed in the first year post stroke: a randomized controlled trial. *Clin Rehabil* 2004 Aug;18(5):509-19.
115. Salbach NM, Mayo NE, Robichaud-Ekstrand S, Hanley JA, Richards CL, Wood-Dauphinee S. The effect of a task-oriented walking intervention on improving balance self-efficacy post-stroke: a randomized, controlled trial. *J Am Geriatr Soc* 2005 Apr;53(4):576-82. Erratum in: *J Am Geriatr Soc* 2005 Aug;53(8):1450.
116. Bayouk JF, Boucher JP, Leroux A. Balance training following stroke: effects of task-oriented exercises with and without altered sensory input. *Int J Rehabil Res* 2006 Mar;29(1):51-9.
117. Tung FL, Yang YR, Lee CC, Wang RY. Balance outcomes after additional Sit-to-Stand training in subjects with stroke: a randomized controlled trial. *Clin Rehabil* 2010 Jun;24(6):533-42.
118. Choi JU, Kang SH. The effects of patient-centered task-oriented training on balance activities of daily living and self-efficacy following stroke. *J Phys Ther Sci* 2015 Sep;27(9):2985-88.
119. Veerbeek JM, van Wegen E, van Peppen R, van der Wees PJ, Hendriks E, Rietberg M, et al. What is the evidence for physical therapy post-stroke? A systematic review and meta-analysis. *PLoS One*. 2014 Feb 4;9(2):e87987. doi:10.1371/journal.pone.0087987.
120. Lubetzky-Vilnai A, Kartin D. The effect of balance training on balance performance in individuals post-stroke: a systematic review. *J Neurol Phys Ther* 2010 Sep;34(3):127-37.
121. Hammer A, Nilsagard Y, Wallquist M. Balance training in stroke patients: a systematic review of randomized, controlled trials. *Advances in Physiotherapy* 2008; 10(4): 163-172.

122. French B, Thomas LH, Leathley MJ, Sutton CJ, McAdam J, Forster A, et al. Repetitive task training for improving functional ability after stroke. *Cochrane Database Syst Rev*. 2007 Oct 17;(4):CD006073.
123. vanKordelaar J, van Wegen EE, Nijland RH, Daffertshofer A, Kwakkel G. Understanding adaptive motor control of the paretic upper limb early post-stroke: the EXPLICIT-stroke program. *Neurorehabil Neural Repair* 2013;27:854–63.
124. Dancause N, Nudo RJ. Shaping plasticity to enhance recovery after injury. *Prog Brain Res* 2011;192:273-95.
125. Kwakkel G, Kollen B, Lindeman E. Understanding the pattern of functional recovery after stroke: facts and theories. *Restor Neurol Neurosci* 2004; 22: 281–99.
126. Kitago T, Liang J, Huang VS, Hayes S, Simon P, Tenteromano L, et al. Improvement after constraint-induced movement therapy: recovery of normal motor control or task-specific compensation? *Neurorehabil Neural Repair* 2013 Feb;27(2):99-109.
127. Nudo RJ. Recovery after brain injury: mechanisms and principles. *Front Hum Neurosci*. 2013 Dec 24;7:887. doi: 10.3389/fnhum.2013.00887.
128. Rand D, Eng JJ. Disparity between functional recovery and daily use of the upper and lower extremities during subacute stroke rehabilitation. *Neurorehabil Neural Repair* 2012 Jan;26(1):76-84.
129. Subramanian SK, Yamanaka J, Chilingaryan G, Levin MF. Validity of movement pattern kinematics as measures of arm motor impairment post-stroke. *Stroke* 2010 Oct;41(10):2303-08.
130. Holmes PS, Collins DJ: The PETTLEP approach to motor imagery: A functional equivalence model for sport psychologists. *J Appl Sport Psychol* 2001; 13:60–83.

131. Schack T, Ritter H. The cognitive nature of action - functional links between cognitive psychology, movement science, and robotics. *Prog Brain Res* 2009;174:231-50.
132. Decety J. The neurophysiological basis of motor imagery. *Behav Brain Res* 1996 May;77(1-2):45-52.
133. Guillot A, Collet C. Contribution from neurophysiological and psychological methods to the study of motor imagery. *Brain Res Rev* 2005 Dec 15;50(2):387-97.
134. Fadiga L, Fogassi L, Pavesi G, Rizzolatti G. Motor facilitation during action observation: a magnetic stimulation study. *J Neurophysiol* 1995Jun;73(6):2608-11.
135. Decety J. Do imagined and executed actions share the same neural substrate? *Brain Res Cogn Brain Res* 1996;3:87-93.
136. Fourkas AD, Ionta S, Aglioti SM. Influence of imagined posture and imagery modality on corticospinal excitability. *Behav Brain Res* 2006 Apr 3;168(2):190-6.
137. Bakker M, Overeem S, Snijders AH, Borm G, van Elswijk G, Toni I, et al. Motor imagery of foot dorsiflexion and gait: effects on corticospinal excitability. *Clin Neurophysiol* 2008 Nov;119(11):2519-27.
138. Fontani G, Migliorini S, Benocci R, Facchini A, Casini M, Corradeschi F. Effect of mental imagery on the development of skilled motor actions. *Percept Mot Skills* 2007 Dec;105(3 Pt 1):803-26.
139. Mizuguchi N, Nakata H, Uchida Y, Kanosue K. Motor imagery and sport performance. *J Phys Fitness Sports Med* 2012;1(1):103-11.

140. Yue G, Cole KJ. Strength increases from the motor program: comparison of training with maximal voluntary and imagined muscle contractions. *J Neurophysiol* 1992 May;67(5):1114-23.
141. Lebon F, Collet C, Guillot A. Benefits of motor imagery training on muscle strength. *J Strength Cond Res* 2010 Jun;24(6):1680-87.
142. Reiser M, Büsch D, Munzert J. Strength gains by motor imagery with different ratios of physical to mental practice. *Front Psychol* 2011 Aug 19;2:194. doi: 10.3389/fpsyg.2011.00194.
143. Collet C, Guillot A, Lebon F, MacIntyre T, Moran A. Measuring motor imagery using psychometric, behavioral, and psychophysiological tools. *Exerc Sport Sci Rev* 2011 Apr;39(2):85-92.
144. Dickstein R, Deutsch JE. Motor imagery in physical therapist practice. *Phys Ther* 2007 Jul;87(7):942-53.
145. Peters HT, Page SJ. Integrating Mental Practice with Task-specific Training and Behavioral Supports in Post-stroke Rehabilitation: Evidence, Components, and Augmentative Opportunities. *Phys Med Rehabil Clin N Am* 2015 Nov;26(4):715-27.
146. Malouin F, Belleville S, Richards CL, Desrosiers J, Doyon J. Working memory and mental practice outcomes after stroke. *Arch Phys Med Rehabil* 2004 Feb; 85(2):177-83.
147. Malouin F, Richards CL, Durand A, Doyon J. Clinical assessment of motor imagery after stroke. *Neurorehabil Neural Repair* 2008 Jul-Aug; 22(4):330-40.
148. Malouin F, Richards CL, Jackson PL, Lafleur MF, Durand A, Doyon J. The Kinesthetic and Visual Imagery Questionnaire (KVIQ) for assessing motor imagery in persons with physical disabilities: a reliability and construct validity study. *J Neurol Phys Ther* 2007 Mar;31(1):20-9.

149. Braun SM, Beurskens AJ, Schack T, Marcellis RG, Oti KC, Schols JM, et al. Is it possible to use the Structural Dimension Analysis of Motor Memory (SDA-M) to investigate representations of motor actions in stroke patients? *Clin Rehabil* 2007 Sep;21(9):822-32.
150. Schack T, Essig K, Frank C, Koester D. Mental representation and motor imagery training. *Front Hum Neurosci* 2014 May22;8:328. doi: 10.3389/fnhum.2014.00328.
151. Bae YH, Ko Y, Ha H, Ahn SY, Lee W, Lee SM. An efficacy study on improving balance and gait in subacute stroke patients by balance training with additional motor imagery: a pilot study. *J Phys Ther Sci* 2015 Oct;27(10):3245-48.
152. Oostra KM, Oomen A, Vanderstraeten G, Vingerhoets G. Influence of motor imagery training on gait rehabilitation in sub-acute stroke: A randomized controlled trial. *J Rehabil Med* 2015 Mar;47(3):204-9.
153. Cho HY, Kim JS, Lee GC. Effects of motor imagery training on balance and gait abilities in post-stroke patients: a randomized controlled trial. *Clin Rehabil* 2013 Aug;27(8):675-80.
154. Dickstein R, Deutsch JE, Yoeli Y, Kafri M, Falash F, Dunsky A, et al. Effects of integrated motor imagery practice on gait of individuals with chronic stroke: a half-crossover randomized study. *Arch Phys Med Rehabil* 2013 Nov;94(11):2119-25.
155. Hosseini SA, Fallahpour M, Sayadi M, Gharib M, Haghgoo H. The impact of mental practice on stroke patients' postural balance. *J NeurolSci* 2012 Nov15;322(1-2):263-7.
156. Verma R, Arya KN, Garg RK, Singh T. Task-oriented circuit class training program with motor imagery for gait rehabilitation in post-stroke patients: a randomized controlled trial. *Top Stroke Rehabil* 2011;18(Suppl 1):620-32.

157. Kim JS, Oh DW, Kim SY, Choi JD. Visual and kinesthetic locomotor imagery training integrated with auditory step rhythm for walking performance of patients with chronic stroke. *Clin Rehabil* 2011 Feb;25(2):134-45.
158. Hwang S, Jeon HS, Yi CH, Kwon OY, Cho SH, You SH. Locomotor imagery training improves gait performance in people with chronic hemiparetic stroke: a controlled clinical trial. *Clin Rehabil* 2010 Jun;24(6):514-22.
159. Malouin F, Richards CL, Durand A, Doyon J. Added value of mental practice combined with a small amount of physical practice on the relearning of rising and sitting post-stroke: a pilot study. *J Neurol Phys Ther* 2009 Dec;33(4):195-202.
160. Dunsky A, Dickstein R, Marcovitz E, Levy S, Deutsch JE. Home-based motor imagery training for gait rehabilitation of people with chronic post-stroke hemiparesis. *Arch Phys Med Rehabil* 2008 Aug;89(8):1580-88.
161. Slimani M, Tod D, Chaabene H, Miarka B, Chamari K. Effects of Mental Imagery on Muscular Strength in Healthy and Patient Participants: A Systematic Review. *J SportsSci Med*. 2016 Aug 5;15(3):434-50.
162. Potter K, Fulk GD, Salem Y, Sullivan J. Outcome measures in neurological physical therapy practice: part I. Making sound decisions. *J Neurol Phys Ther* 2011 Jun;35(2):57-64.
163. Sullivan JE, Andrews AW, Lanzino D, Perron AE, Potter KA. Outcome measures in neurological physical therapy practice: part II. A patient-centered process. *J Neurol Phys Ther* 2011 Jun;35(2):65-74.
164. Geyh S, Kurt T, Brockow T, Cieza A, Ewert T, Omar Z, Resch KL. Identifying the concepts contained in outcome measures of clinical trials on stroke using the International Classification of Functioning, Disability and Health as a reference. *J Rehabil Med* 2004 Jul;(44 Suppl):56-62.

165. Beattie P. Measurement of health outcomes in the clinical setting: applications to physiotherapy. *Physiother Theory Pract* 2001; 17:173-185.
166. Sullivan JE, Crowner BE, Kluding PM, Nichols D, Rose DK, Yoshida R, et al. Outcome measures for individuals with stroke: process and recommendations from the American Physical Therapy Association neurology section task force. *Phys Ther* 2013 Oct;93(10):1383-96.
167. Wrisley DM, Marchetti GF, Kuharsky DK, Whitney SL. Reliability, internal consistency, and validity of data obtained with the Functional Gait Assessment. *Phys Ther* 2004;84:906–918.
168. Thieme H, Ritschel C, Zange C. Reliability and validity of the Functional Gait Assessment (German version) in subacute stroke patients. *Arch Phys Med Rehabil* 2009;90:1565–70.
169. Lin JH, Hsu MJ, Hsu HW, Wu HC, Hsieh CL. Psychometric comparisons of 3 functional ambulation measures for patients with stroke. *Stroke* 2010;41:2021-25.
170. Blum L, Korner-Bitensky N. Usefulness of the Berg Balance Scale in stroke rehabilitation: a systematic review. *Phys Ther* 2008;88:559–66.
171. Stevenson TJ. Detecting change in patients with stroke using the Berg Balance Scale. *Aust J Physiother* 2001;47:29-42.
172. Hiengkaew V, Jitaree K, Chaiyawat P. Minimal detectable changes of the Berg Balance Scale, Fugl-Meyer Assessment Scale, Timed “Up & Go” Test, gait speeds, and 2-minute walk test in individuals with chronic stroke with different degrees of ankle plantarflexor tone. *Arch Phys Med Rehabil* 2012;93:1201-28.
173. Knepler C, Bohannon R. Subjectivity of forces associated with manual muscle test grades of 3+, 4-, and 4. *Percept Mot Skills* 1998;87:1123-8.

174. Cuthbert SC, Goodheart GJ. On the reliability and validity of manual muscle testing: a literature review. *Chiropr Osteopat* 2007 Mar 6;15:4.
175. Agre JC, Magness JL, Hull SZ, Wright KC, Baxter TL, Patterson R, et al. Strength testing with a portable dynamometer: reliability for upper and lower extremities. *Arch Phys Med Rehabil* 1987 Jul;68(7):454-8.
176. Bohannon RW. Hand-held dynamometry: factors influencing reliability and validity. *Clin Rehabil* 1997;11:263-4.
177. Bohannon RW. Measurement and nature of muscle strength in patients with stroke. *J Neuro Rehabil* 1997;11:115-25.
178. Verschuren O, Ketelaar M, Takken T, Van Brussel M, Helders PJ, Gorter JW. Reliability of hand-held dynamometry and functional strength tests for the lower extremity in children with Cerebral Palsy. *Disabil Rehabil* 2008;30(18):1358-66.
179. Bohannon RW. Test-retest reliability of hand-held dynamometry during a single session of strength assessment. *Phys Ther* 1986;66:206-9.
180. Riddle DL, Finucane SD, Rothstein JM, Walker ML. Intrasession and intersession reliability of hand-held dynamometer measurements taken on brain-damaged patients. *Phys Ther* 1989 Mar;69(3):182-94.
181. Flansbjerg UB, Holmbäck AM, Downham D, Patten C, Lexell J. Reliability of gait performance tests in men and women with hemiparesis after stroke. *J Rehabil Med* 2005 Mar;37(2):75-82.
182. Tyson S, Connell L. The psychometric properties and clinical utility of measures of walking and mobility in neurological conditions: a systematic review. *Clin Rehabil* 2009 Nov;23(11):1018-33.

183. Fulk GD, Ludwig M, Dunning K, Golden S, Boyne P, West T. Estimating clinically important change in gait speed in people with stroke undergoing outpatient rehabilitation. *J Neurol Phys Ther* 2011 Jun;35(2):82-9.
184. Duncan PW, Lai SM, Bode RK, Perera S, DeRosa J. Stroke Impact Scale-16: a brief assessment of physical function. *Neurology* 2003;60:291–96.
185. Carod-Artal FJ, Ferreira Coral L, StievenTrizotto D, Menezes Moreira C. Self and proxy-report agreement on the Stroke Impact Scale. *Stroke*. 2009 Oct;40(10):3308-14.
186. Edwards B, O'Connell B. Internal consistency and validity of the Stroke Impact Scale 2.0 (SIS 2.0) and SIS-16 in an Australian sample. *Qual Life Res* 2003;12:1127–1135.
187. Fulk GD, Ludwig M, Dunning K, Golden S, Boyne P, West T. How much change in the stroke impact scale-16 is important to people who have experienced a stroke? *Top Stroke Rehabil* 2010 Nov-Dec;17(6):477-83.
188. Doig GS, Simpson F. Randomization and allocation concealment: a practical guide for researchers. *J Crit Care* 2005;20(2):187-91.
189. Briggs DE, Felberg RA, Malkoff MD, Bratina P, Grotta JC. Should mild or moderate stroke patients be admitted to an intensive care unit? *Stroke* 2001;32:871-6.
190. Mehrholz J, Wagner K, Rutte K, Meibner D, Pohl M. Predictive validity and responsiveness of the Functional Ambulation Category in hemiparetic patients after stroke. *Arch Phys Med Rehabil* 2007; 88:1314-19.
191. Tombaugh TN, McIntyre NJ. The mini-mental state examination: a comprehensive review. *J Am Geriatr Soc* 1992; 40(9):922-35.

192. Malouin F, Richards CL, Durand A, Doyon J. Reliability of mental chronometry for assessing motor imagery ability after stroke. *Arch Phys Med Rehabil* 2008; 89:311-9.
193. Seegelke C, Schack T. Cognitive Representation of Human Action: Theory, Applications, and Perspectives. *Front Public Health* 2016 Feb 18;4:24. doi:10.3389/fpubh.2016.00024.
194. Frank C, Land WM, Popp C, Schack T. Mental representation and mental practice: experimental investigation on the functional links between motor memory and motor imagery. *PLoS One* 2014 Apr 17;9(4):e95175. doi: 10.1371/journal.pone.0095175.
195. Schenkman M, Berger RA, Riley PO, Mann RW, Hodge WA. Whole-body movements during rising to standing from sitting. *Phys Ther* 1990; 70(10):638-48.
196. Stöckel T, Jacksteit R, Behrens M, Skripitz R, Bader R, Mau-Moeller A. The mental representation of the human gait in young and older adults. *Front Psychol* 2015; 14(6):943. doi: 10.3389/fpsyg.2015.00943.
197. Wrisley DM, Kumar NA. Functional gait assessment: concurrent, discriminative, and predictive validity in community-dwelling older adults. *Phys Ther* 2010 May;90(5):761-73.
198. Weber C, Schwieterman M, Fier K, Berni J, Swartz N, Phillips RS, et al. Reliability and Validity of the Functional Gait Assessment: A Systematic Review. *Physical Occupational Therapy In Geriatrics*. 2016 Jan 2; 34(1):88-103.
199. Kim CY, Lee JS, Kim HD, Kim JS. The effect of progressive task-oriented training on a supplementary tilt table on lower extremity muscle strength and gait recovery in patients with hemiplegic stroke. *Gait Posture* 2015; 41(2):425-30.

200. Burns SP, Spanier DE. Break-technique handheld dynamometry: relation between angular velocity and strength measurements. *Arch Phys Med Rehabil* 2005; 86(7):1420-6.
201. Kreisel SH, Hennerici MG, Bätzner H. Pathophysiology of stroke rehabilitation: the natural course of clinical recovery, use-dependent plasticity and rehabilitative outcome. *Cerebrovasc Dis* 2007;23:243–255.
202. Jorgensen HS, Nakayama H, Raaschou HO, Vive-Larsen J, Stoier M, Olsen TS. Outcome and time course of recovery in stroke. Part II: Time course of recovery. The Copenhagen Stroke Study. *Arch Phys Med Rehabil* 1995;76:406–412.
203. Lee KB, Lim SH, Kim KH, Kim KJ, Kim YR, Chang WN, Yeom JW, Kim YD, Hwang BY. Six-month functional recovery of stroke patients: a multi-time-point study. *Int J Rehabil Res* 2015 Jun;38(2):173-80.
204. Andrews AW, Bohannon RW. Distribution of muscle strength impairments following stroke. *Clin Rehabil.* 2000 Feb;14(1):79-87.
205. Kim CM, Eng JJ. The relationship of lower-extremity muscle torque to locomotor performance in people with stroke. *Phys Ther* 2003 Jan;83(1):49-57.
206. Dorsch S, Ada L, Canning CG. Lower Limb Strength Is Significantly Impaired in All Muscle Groups in Ambulatory People With Chronic Stroke: A Cross-Sectional Study. *Arch Phys Med Rehabil* 2016 Apr;97(4):522-7.
207. Guadagnoli MA, Lee TD. Challenge point: a framework for conceptualizing the effects of various practice conditions in motor learning. *J Mot Behav* 2004;36:212–24.

208. Schweighofer N, Lee JY, Goh HT, Choi Y, Kim SS, Stewart JC, et al. Mechanisms of the contextual interference effect in individuals post stroke. *J Neurophysiol* 2011 Nov; 106(5):2632-41.
209. Pollock CL, Boyd LA, Hunt MA, Garland SJ. Use of the challenge point framework to guide motor learning of stepping reactions for improved balance control in people with stroke: a case series. *Phys Ther* 2014 Apr;94(4):562-70.
210. Dobkin BH. Rehabilitation and functional neuroimaging dose-response trajectories for clinical trials. *Neurorehabil Neural Repair* 2005; 19:276–82.
211. Seidler RD. Neural correlates of motor learning, transfer of learning, and learning to learn. *Exerc Sport Sci Rev* 2010 Jan; 38(1):3-9.
212. Jang SH, Kim YH, Cho SH, Lee JH, Park JW, Kwon YH. Cortical reorganization induced by task-oriented training in chronic hemiplegic stroke patients. *Neuroreport* 2003 Jan 20;14(1):137-41.
213. Bayona NA, Bitensky J, Salter K, Teasell R. The role of task-specific training in rehabilitation therapies. *Top Stroke Rehabil* 2005;12(3):58-65.
214. Arya KN, Verma R, Garg RK, Sharma VP, Agarwal M, Aggarwal GG. Meaningful task-specific training (MTST) for stroke rehabilitation: a randomized controlled trial. *Top Stroke Rehabil* 2012 May-Jun;19(3):193-211.
215. Lee J, Seo K. The effects of stair walking training on the balance ability of chronic stroke patients. *J Phys Ther Sci* 2014 Apr;26(4):517-20.
216. Seo K, Kim J, Wi G. The effects of stair gait exercise on static balance ability of stroke patients. *J Phys Ther Sci* 2014 Nov;26(11):1835-38.

217. Kim YS: Muscle activation patterns of stair gait in hemiparetic patients using surface electromyography. *J Adapted Phys Act* 2006;14: 1–15.
218. Seo K, Park SH, Park K. The effects of stair gait training using proprioceptive neuromuscular facilitation on stroke patients' dynamic balance ability. *J Phys Ther Sci* 2015 May;27(5):1459-62.
219. Di Rienzo F, Collet C, Hoyek N, Guillot A. Impact of neurologic deficits on motor imagery: a systematic review of clinical evaluations. *Neuropsychol Rev* 2014 Jun;24(2):116-47.
220. Carey JR, Kimberley TJ, Lewis SM, Auerbach EJ, Dorsey L, Rundquist P, et al. Analysis of fMRI and finger tracking training in subjects with chronic stroke. *Brain* 2002;125:773–88.
221. Liepert J, Graef S, Uhde I, Leidner O, Weiller C. Training-induced changes of motor cortex representations in stroke patients. *Acta Neurol Scand* 2000 May;101(5):321-6.
222. Yen CL, Wang RY, Liao KK, Huang CC, Yang YR. Gait training induced change in corticomotor excitability in patients with chronic stroke. *Neurorehabil Neural Repair* 2008 Jan-Feb;22(1):22-30.
223. Tang Q, Li G, Liu T, Wang A, Feng S, Liao X, et al. Modulation of interhemispheric activation balance in motor-related areas of stroke patients with motor recovery: Systematic review and meta-analysis of fMRI studies. *Neurosci Biobehav Rev*. 2015 Oct;57:392-400.
224. Kraft E, Schaal MC, Lule D, König E, Scheidtmann K. The functional anatomy of motor imagery after sub-acute stroke. *NeuroRehabilitation*. 2015;36(3):329-37.
225. Park CH, Chang WH, Lee M, Kwon GH, Kim L, Kim ST, et al. Predicting the performance of motor imagery in stroke patients: multivariate pattern analysis of functional MRI data. *Neurorehabil Neural Repair* 2015 Mar-Apr;29(3):247-54.

226. Schott N. Age-related differences in motor imagery: working memory as a mediator. *Exp Aging Res.* 2012;38(5):559-83.
227. Stinear CM, Fleming MK, Barber PA, Byblow WD. Lateralization of motor imagery following stroke. *Clin Neurophysiol* 2007 Aug;118(8):1794-801.
228. Malouin F, Richards CL, Durand A. Slowing of motor imagery after a right hemispheric stroke. *Stroke Res Treat* 2012;2012:297217. doi: 10.1155/2012/297217.
229. Dettmers C, Nedelko V, Schoenfeld MA. Impact of left versus right hemisphere subcortical stroke on the neural processing of action observation and imagery. *Restor Neurol Neurosci* 2015;33(5):701-12.
230. Munzert J, Lorey B, Zentgraf K. Cognitive motor processes: the role of motor imagery in the study of motor representations. *Brain Res Rev* 2009 May;60(2):306-26.
231. Frank C, Land WM, Schack T. Perceptual-Cognitive Changes During Motor Learning: The Influence of Mental and Physical Practice on Mental Representation, Gaze Behavior, and Performance of a Complex Action. *Front Psychol* 2016 Jan 8;6:1981. doi: 10.3389/fpsyg.2015.01981.
232. Buccino G, Solodkin A, Small SL. Functions of the mirror neuron system: implications for neurorehabilitation. *Cogn Behav Neurol* 2006; 19:55–63.
233. Franceschini M, Agosti M, Cantagallo A, Sale P, Mancuso M and Buccino G. Mirror neurons: action observation treatment as a tool in stroke rehabilitation. *Eur J Phys Rehabil Med* 2010; 46:517–523.
234. Bang DH, Shin WS, Kim SY, Choi JD. The effects of action observational training on walking ability in chronic stroke patients: a double-blind randomized controlled trial. *Clin Rehabil* 2013 Dec;27(12):1118-25.

235. Jarus T, Loiter Y. The effect of kinesthetic stimulation on acquisition and retention of a gross motor skill. *Canadian Journal of Occupational Therapy* 1995 Apr 1;62(1):23-9.
236. Nagano K, Nagano Y. The improvement effect of limited mental practice in individuals with post-stroke hemiparesis: the influence of mental imagery and mental concentration. *J Phys Ther Sci* 2015 Aug;27(8):2641-4.
237. Schuster C, Butler J, Andrews B, Kischka U, Ettlin T. Comparison of embedded and added motor imagery training in patients after stroke: results of a randomised controlled pilot trial. *Trials* 2012 Jan;13:11-21.
238. Page SJ, Dunning K, Hermann V, Leonard A, Levine P. Longer versus shorter mental practice sessions for affected upper extremity movement after stroke: a randomized controlled trial. *Clin Rehabil* 2011 Jul;25(7):627-37.
239. Bajaj S, Butler AJ, Drake D, Dhamala M. Brain effective connectivity during motor-imagery and execution following stroke and rehabilitation. *Neuroimage Clin* 2015 Jun 28;8:572-82.
240. De Souza NS, Martins AC, da Silva Canuto K, Machado D, Teixeira S, Orsini M, et al. Postural control modulation during motor imagery tasks: A systematic review. *International Archives of Medicine* 2015;8:43. doi: 10.3823/1642.
241. Grangeon M, Guillot A, Collet C. Postural control during visual and kinesthetic motor imagery. *Appl Psychophysiol Biofeedback* 2011 Mar;36(1):47-56.
242. Stins JF, Schneider IK, Koole SL, Beek PJ. The Influence of Motor Imagery on Postural Sway: Differential Effects of Type of Body Movement and Person Perspective. *Adv Cogn Psychol* 2015 Sep 30;11(3):77-83.

243. Ferraye MU, Debû B, Heil L, Carpenter M, Bloem BR, Toni I. Using motor imagery to study the neural substrates of dynamic balance. *PLoS One*. 2014 Mar 24;9(3):e91183. doi: 10.1371/journal.pone.0091183.
244. Taube W, Mouthon M, Leukel C, Hoogewoud HM, Annoni JM, Keller M. Brain activity during observation and motor imagery of different balance tasks: an fMRI study. *Cortex*. 2015 Mar;64:102-14.
245. Rodrigues EC, Lemos T, Gouvea B, Volchan E, Imbiriba LA, Vargas CD. Kinesthetic motor imagery modulates body sway. *Neuroscience* 2010 Aug 25;169(2):743-50.
246. Lemos T, Souza NS, Horsczaruk CH, Nogueira-Campos AA, de Oliveira LA, Vargas CD, et al. Motor imagery modulation of body sway is task-dependent and relies on imagery ability. *Front Hum Neurosci* 2014 May 8;8:290. doi:10.3389/fnhum.2014.00290
247. Landau WM, Sahrmann SA. Preservation of directly stimulated muscle strength in hemiplegia due to stroke. *Arch Neurol* 2002 Sep;59(9):1453-57.
248. Madhavan S, Krishnan C, Jayaraman A, Rymer WZ, Stinear JW. Corticospinal tract integrity correlates with knee extensor weakness in chronic stroke survivors. *Clin Neurophysiol* 2011 Aug;122(8):1588-94.
249. Yao WX, Ranganathan VK, Allexandre D, Siemionow V, Yue GH. Kinesthetic imagery training of forceful muscle contractions increases brain signal and muscle strength. *Front Hum Neurosci* 2013 Sep 26;7:561. doi: 10.3389/fnhum.2013.00561.
250. Ranganathan VK, Siemionow V, Liu JZ, Sahgal V, Yue GH. From mental power to muscle power--gaining strength by using the mind. *Neuropsychologia* 2004;42(7):944-56.

251. Aoyama T, Kaneko F. The effect of motor imagery on gain modulation of the spinal reflex. *Brain Res* 2011 Feb 4;1372:41-8.
252. Guillot A, Lebon F, Rouffet D, Champely S, Doyon J, Collet C. Muscular responses during motor imagery as a function of muscle contraction types. *Int J Psychophysiol* 2007 Oct;66(1):18-27.
253. Bunno Y, Suzuki T, Iwatsuki H. Motor imagery muscle contraction strength influences spinal motor neuron excitability and cardiac sympathetic nerve activity. *J Phys Ther Sci* 2015 Dec;27(12):3793-8.
254. Hsu AL, Tang PF, Jan MH. Analysis of impairments influencing gait velocity and asymmetry of hemiplegic patients after mild to moderate stroke. *Arch Phys Med Rehabil* 2003;84:1185-93.
255. Lewek MD, Bradley CE, Wutzke CJ, Zinder SM. The relationship between spatiotemporal gait asymmetry and balance in individuals with chronic stroke. *J Appl Biomech* 2014 Feb;30(1):31-6.
256. Lauziere S, Betschart M, Aissaoui R, Nadeau S. Understanding spatial and temporal gait asymmetries in individuals post stroke. *Int J Phys Med Rehabil* 2014 2:3. doi:10.4172/2329-9096.1000201
257. Hollands KL, Pelton TA, Tyson SF, Hollands MA, van Vliet PM. Interventions for coordination of walking following stroke: systematic review. *Gait Posture* 2012 Mar;35(3):349-59.
258. la Fougère C, Zwergal A, Rominger A, Förster S, Fesl G, Dieterich M, et al. Real versus imagined locomotion: a [18F]-FDG PET-fMRI comparison. *Neuroimage* 2010 May 1;50(4):1589-98.
259. Ferraye MU, Debû B, Heil L, Carpenter M, Bloem BR, Toni I. Using motor imagery to study the neural substrates of dynamic balance. *PLoS One* 2014 Mar 24;9(3):e91183. doi: 10.1371/journal.pone.0091183.

260. Thaut MH, Leins AK, Rice RR, Argstatter H, Kenyon GP, McIntosh GC, et al. Rhythmic auditory stimulation improves gait more than NDT/Bobath training in near-ambulatory patients early poststroke: a single-blind, randomized trial. *Neurorehabil Neural Repair* 2007 Sep-Oct;21(5):455-9.
261. Fulk GD, Ludwig M, Dunning K, Golden S, Boyne P, West T. Estimating clinically important change in gait speed in people with stroke undergoing outpatient rehabilitation. *J Neurol Phys Ther* 2011 Jun;35(2):82-9.
262. Salbach NM, Mayo NE, Robichaud-Ekstrand S, Hanley JA, Richards CL, Wood-Dauphinee S. Balance self-efficacy and its relevance to physical function and perceived health status after stroke. *Arch Phys Med Rehabil* 2006;87:364-70.
263. Kim JH, Park EY. Balance self-efficacy in relation to balance and activities of daily living in community residents with stroke. *Disabil Rehabil* 2014;36(4):295-9.
264. French MA, Moore MF, Pohlig R, Reisman D. Self-efficacy Mediates the Relationship between Balance/Walking Performance, Activity, and Participation after Stroke. *Top Stroke Rehabil* 2016 Apr;23(2):77-83.
265. Bandura A. Self-efficacy: Toward a unifying theory of behavioral change. *Psychol Rev* 1977; 84(2): 191–215.
266. Paivio A. Cognitive and motivational functions of imagery in human performance. *Can J Appl Sport Sci* 1985 Dec;10(4):22S-28S.
267. Tang A, Tao A, Soh M, Tam C, Tan H, Thompson J, Eng JJ. The effect of interventions on balance self-efficacy in the stroke population: a systematic review and meta-analysis. *Clin Rehabil* 2015 Dec;29(12):1168-77.
268. Nicholson S, Sniehotta FF, van Wijck F, Greig CA, Johnston M, McMurdo ME, et al. A systematic review of perceived barriers and motivators to physical activity after stroke. *Int J Stroke* 2013;8(5):357–364.