REFERENCES

1. Bax M, Goldstein M, Rosenbaum P, Leviton A, Paneth N, Dan B, et al. Proposed definition and classification of cerebral palsy. Dev Med Child Neurol. 2005; 47: 571-6.
2. Rajanukul Institute. 2009. "Statistics." [Online]. Availble http://www.rajanukul.com/service our.htm (20 September 2009).
3. National Statistical Office of Thailand. 2009. "Statistical Data on Disability Profile." [Online]. Availble http://service.nso.go.th/nso/nso_center/project/search_center/23project-th.htm (26 September 2009).
4. Rosenbaum, P. The definition and classification of cerebral palsy: Are we any further ahead in 2006? Neo Reviews. 2006; 7: 569-74.
5. Dodd KJ, Taylor NF, Graham HK. A randomized clinical trial of strength training in young people with cerebral palsy. Dev Med Child Neurol. 2003; 45: 652-7.
6. Gage JR. Treatment Principle for Crouch Gait. In: Gage JR, editor. The Treatment of Gait Problems in Cerebral Palsy. London: Mac Keith Press; 2004.
7. Damiano DL, Kelly LE, Vaughn CL. Effects of quadriceps femoris muscle strengthening on crouch gait in children with spastic diplegia. Phys Ther. 1995; 75: 658-67.

8. Rodda J. Classification of gait patterns in spastic hemiplegia and spastic diplegia: a basis for a management algorithm**.** Eur J Neurol. 2001; 8: 98-108

9. Sojka AM, Stuberg WA, Knutson LM, Karst GM. Kinematic and electromyographic characteristics of children with cerebral palsy who exhibit genu recurvatum. Arch Phys Med Rehabil. 1995; 76: 558–65

10. Wiley ME, Damiano DL. Lower extremity strength profiles in spastic cerebral palsy. Dev Med Child Neurol. 1998; 40: 100-7.

11. Damiano DL, Martellotta TL, Sullivan DJ, Granata KP. Muscle force production and function performance in spastic cerebral palsy: relationship of cocontraction. Arch Phys Med Rehabil. 2000; 81:895-900.

12. Damiano DL, Vaughan CL, Abel MF. Muscle response to heavy resistance exercise in children with spastic cerebral palsy. Dev Med Child Neurol. 1995; 37: 731-9.

13. Damiano DL, Abel MF. Functional outcomes of strength training in spastic cerebral palsy. Arch Phys Med Rehabil. 1998; 79: 119-25.

14. Dodd KJ, Taylor NF, Damiano DL. A systematic review of the effectiveness of strength-training programs for people with cerebral palsy. Arch Phys Med Rehabil. 2002; 83: 1157-64.

15. Daichman J, Johnston TE, Evan K, Tecklin JS. The effects of neuromuscular electrical stimulation home program on impairments and functional skills of a child with spastic diplegic cerebral palsy: a case report. Pediatr Phys Ther. 2003; 15: 153-8.

16. Kerr C, McDowell B, Cosgrove A, Walsh D. Electrical stimulation in cerebral palsy: a randomized controlled trial. Dev Med Child Neurol. 2006; 48: 870-6.

17. Combined Sections Meeting 2003. "Strengthening in individuals with cerebral palsy." [Online]. Availble http://www.pediatricapta.org/csm2003/4501 (20 September 2009).

18. Kerr C, McDowell B, McDonough S. Electrical stimulation in cerebral palsy : a review of effects on strength and motor function. Dev Med Child Neurol. 2004; 46: 205-13.

19. Dodd KJ, Taylor NF, Larkin H. Progressive resistance exercise for adults with athetoid cerebral palsy: A single subject research design. Physiotherapy Singapore. 2005; 8: 3-12.

20. Laughman RK, Youdas JW, Garrett TR, Chao EYS. Strength changes in the normal quadriceps femoris muscle as a result of electrical stimulation. Phys Ther. 1983; 63: 494-509.

21. Dehail P, Duclos C, Barat M. Electrical stimulation and muscle strengthening. Ann Readapt Med Phys. 2008; 51: 441-51.

22. Givon U. Muscle weakness in cerebral palsy. Acta Orthop Traumatol Turc. 2009; 43: 87-93.

23. Pawielski KM, O'Hearn M. The effect of a neuromuscular electrical stimulation and an isometric strengthening home program on a child with spastic hemiplegic cerebral palsy: a single system design [abstract]. Pediatr Phys Ther. 2005; 17: 100.

24. Delitto A, Snyder-Mackler L. Two theories of muscle strength augmentation using percutaneous electrical stimulation. Phys Ther. 1 990; 70: 158-64.

25. Advance physical therapy. [Online]. Availble http://jant.tistory.com/1798 (26 August 2009).

26. Wangjam K, Singh AJ, Singh LN. Management of crouch in cerebral palsy diplegia. IJPMR. 2005; 1: 5-12.

27. Arnold AS, Schwartz MH, Thelen DG, Delp SL. Contributions of muscles to terminal swing knee motions vary with walking speed. J Biomech. 2007; 40: 3660-71.

28. Valvano J, Carollo JJ, Lutz B, Chang F. Oral presentations: knee extension at terminal swing: a missing critical gait even for children with spastic cerebral palsy. Gait Posture. 2006.

29. Arnold AS, Anderson FC, Pandy MG, Delp SL. Muscular contributions to hip and knee extension during the single limb stance of normal gait: a framework for investigating the causes of crouch gait. J Biomech. 2005; 38: 2181-9.

30. Kerrigan DC, Deming LC, Holden MK. Knee recurvatum in gait: a study of associated knee biomechanics. Arch Phys Med Rehabil. 1996; 77: 645-50

31. Arnold AS, Liu MQ, Schwartz MH, Ounpuu S, Delp SL. The role of estimating muscle tendon lengths and velocities of the hamstrings in the evaluation and treatment of crouch gait. Gait Posture. 2006; 23: 273-81.

32. Jessica R. Selective motor control in spastic cerebral palsy. Dev Med Child Neurol. 2009; 51: 578-89.

33. Eek MN, Beckung E. Walking ability is related to muscle strength in children with cerebral palsy. Gait Posture. 2008; 28: 366-71.

34. Howe JA, Inness EL, Venturini A, Williams JI, Verrier MC. The community balance and mobility scale-a balance measure for individuals with traumatic brain injury. Clin Rehabil. 2006; 20: 885-95.

35. Perumal R, Wexler A, Ding J, Binder-Macleod S. Modeling the length dependence of isometric force in human quadriceps muscles. J Biomech. 2002; 35: 919-30.

36. Palisano RJ, Hanna SE, Rosenbaum PL, Russell DJ, Walter SD, Wood EP, et al. Validation of a model of Gross Motor Function for children with cerebral palsy. Phys Ther. 2000; 80: 974-85.

37. Bodkin A, Robinson C, Perales F. Reliability and validity of the gross motor function classification system for cerebral palsy. Pediatr Phys Ther. 2003; 15: 247-52.

38. Taylor NF, Dodd KJ, Graham HK. Test-retest reliability of hand-held dynamometric strength testing in young people with cerebral palsy. Arch Phys Med Rehabil. 2004; 85: 77–80.

39. Berry ET, Guiliani CA, Damiano DL. Intrasession and intersession reliability of handheld dynamometry in children with cerebral palsy. Pediatr Phys Ther. 2004; 16: 191-8.

40. Ansari NN, Naghdi S, Hasson S, Mousakhani A, Nouriyan A, Omidvar Z. Inter-rater reliability of the modified ashworth scale as a clinical tool in measurements of post-stroke elbow flexor spasticity. Neuro Rehab. 2009; 24: 225-39.

41. Mutlu A, Livanelioglu A, Gunel M. Reliability of ashworth and modified ashworth scales in children with spastic cerebral palsy. BMC Muscoskel Disord. 2008; 9: 44.

42. Stillman B. Physiological quadriceps lag: its nature and clinical significance. Aust J Physiother. 2004; 50: 237-41.

43. Stout JL, Gage JR, Schwartz MH, Novacheck TF. Distal femoral extension osteotomy and patellar tendon advancement to treat persistent crouch gait in cerebral palsy. J Bone Joint Surg. 2008; 90: 2470-84.

44. Giuliani CA. Dorsal rhizotomy for children with cerebral palsy: support for concepts of motor control. Phys Ther. 1991; 71: 248-59.

45. American Association of Intensive Pediatric Physical Therapy. "Strength training and CP." [Online]. Availble http://www.aaippt.org/STRENGTHTRAINING.html (5 October 2009).

46. Fowler EG, Ho TW, Nwigwe AI, Dorey FJ. The effect of quadriceps femoris muscle strengthening exercises on spasticity in children with cerebral palsy. Phys Ther. 2001; 81: 1215-23.

47. Unger M, Faure M, Frieg A. Strength training in adolescent learners with cerebral palsy: a randomized controlled trial. Clin Rehabil. 2006; 20: 469-77.

48. Andersson C, Grooten W, Hellsten M, Kaping K, Mattsson E. Adults with cerebral palsy: walking ability after progressive strength training. Dev Med Child Neurol. 2003; 45: 220-8.

49. MacPhail HEA. Effect of isokinetic strength – training of functional ability and walking efficiency in adolescents with cerebral palsy. Dev Med Child Neurol. 1995; 37: 763-75.

50. Morton JF, Brownlee M, McFadyen AK. The effects of progressive resistance training for children with cerebral palsy. Clin Rehabil. 2005; 19: 283-9.

51. Damiano DL, Dodd K, Taylor NF. Should we be testing and training muscle strength in cerebral palsy? Dev Med Child Neurol. 2002; 44: 68-72.

52. Pucci AR, Griffin L, Cafarelli E. Maximal motor unit firing rates during isometric resistance training in men. Exp Physiol. 2006; 91: 171-8.

53. Stackhouse SK, Binder-Macleod SA, Stackhouse CA, McCarthy JJ, Prosser LA, Lee SCK. Neuromuscular electrical stimulation versus volitional isometric strength training in children with spastic diplegic cerebral palsy: A Preliminary study. Neurorehabil Neural Repair. 2007; 21: 475-85.

54. Verschuren O, Ketelaar M, Takken T, Helders PJM, Gorter JW. Exercise programs for children with cerebral palsy: A systematic review of the literature. Am J Phys Med Rehab. 2008; 87: 404-17.

55. Kamper DG, Yasukawa AM, Barrett KM, Gaebler-Spira DJ. Effects of neuromuscular electrical stimulation treatment of cerebral palsy on potential impairment mechanisms: A pilot study. Pediatr Phys Ther. 2006; 18: 31-8.

56. McCarthy J, Finson RL, Betz RR. The use of neuromuscular electrical stimulation (NMES) in the treatment of children with cerebral palsy. Pediatric Gait. 2000; 24: 39-45.

57. Gregory MC, Bicket SC. Recruitment patterns in human skeletal muscle during electrical stimulation. Phys Ther. 2005; 85: 358-64

58. Paillard T. Combined application of neuromuscular electrical stimulation and voluntary muscular contractions. Sports Med 2008; 38: 161-77

59. Paillard T, No´e F, Passelergue P, Dupui P. Electrical stimulation superimposed onto voluntary muscular contraction. Sports Med 2005; 35: 951-66

60. Della Croce U, Cappozzo A, Kerrigan C, Lucchetti L. Bone position and orientation errors: pelvis and lower limb anatomical landmark identification reliability. Gait Posture. 1997; 5: 156-67.

61. van der Salm A, Veltink PH, Ijzerman MJ, Groothuis-Oudshoorn KC, Nene AV, Hermens HJ. Comparison of electric stimulation methods for reduction of triceps surae spasticity in spinal cord injury. Arch Phys Med Rehabil. 2006; 87: 222-8.

62. McDonough S. Neuromuscular and muscular electrical stimulation. In: Watson T, editor. Electrotherapy: evidence based practice. 12th ed. New York: Churchill Livingstone Elsevier, 2008.

63. Burtner PA, Qualls C, Woollacott MH. Muscle activation characteristics of stance balance control in children with spastic cerebral palsy. Gait Posture. 1998; 8: 163-74.