**References (WCPSS parents):**

1.Wang M, Reid D. Virtual Reality in Pediatric Rehabilitation: Attention Deficit Hyperactivity Disorder, Autism, and Cerebral Palsy. *Neuroepidemiology*. 2011; 36:2-18.

2. Burdea G, Coiffet P. *Virtual Reality Technology*. Hoboken, NJ: John Wiley & Sons Inc; 2003.

3. Witmer BG, Jerome CJ, Singer MJ: The factor structure of the presence questionnaire. *Presence*. 2005;14:298-312.

4. Miller S, Reid D. Doing play: competency, control and expression. Cyberpsychol Behavior. 2003; 6:623-632.

5. Clark RA, Pua YH, Fortin K, et al. Validity of the Microsoft Kinect for assessment of postural control. *Gait & Posture.* 2012; 1-6.

6. Chang YJ, Chen SF, Huang JD. A Kinect-based system for physical rehabilitation: A pilot study for young adults with motor disabilities. *Research in Developmental Disabilities.* 2011; 32: 2566-2570.

7. Shih CH, Wang SH, Chang ML. Enabling people with developmental disabilities actively perform designated occupational activities according to simple instructions with a Nintendo Wii Remote Controller by controlling environmental stimulation. *Research in Developmental Disabilities.* 2012; 33(4): 1194-1199.

8. Clark RA, Bryant AL, Pua Y, et al. Validity and reliability of the Nintendo Wii Balance Board for assessment of standing balance. *Gait Posture*. 2010; 31:307-310.

9. McGough et al. Improving Lower Limb Weight Distribution Asymmetry During the Squat using the Nintendo Wii Balance Board & Real-Time Feedback. *Journal of Strength and Conditioning.* 2012;

10. Deutsch JE, Borbely M, Filler J, et al. Use of a Low-Cost, commercially available Gaming Console (Wii) for Rehabilitation of an Adolescent with Cerebral Palsy. *Physical Therapy.* 2008; 88(10):1196-1207.

11. Lange B, Flynn S, Proffitt R, et al. Development of an Interactive Game-Based Rehabilitation Tool for Dynamic Balance Training. *Top Stroke Rehabil.* 2010; 17(5): 345-352.

12. Vicki Mercer PT, PhD. Motor Learning Lecture-HMSC 743 Class. UNC-Chapel Hill. Spring Semester 2011.

13. Adamovich SA, Fluet GG, Tunik E, et al. Sensorimotor training in virtual reality: A review. *Neurorehabilitation.* 2009; (25): 29-44.

14. Karen McCulloch, PT, PhD, NCS Neuroplasticity Lecture-HMSC 701 Class. UNC Chapel Hill. Fall Semester 2010.

15. Jenkins WM, Merzenich MM. Reorganization of neocortical representations after brain injury: a neurophysiological model of the bases of recovery from stroke. *Prog Brain Res.* 1987; (71): 249-266.

16. Lewis JW, Van Essen DC. Corticocortical connections of visual, sensorimotor, and multimodal processing areas in the parietal lobe of the macaque monkey. *J* *Comp Neurol.* 2000; 428(1): 112-137.

17. Golomb MR, Barkat-Masih M, Rabin B, et al. Eleven months of home virtual reality tele-rehabilitation – lessons learned. *IEEE* 2009.

18. Reid, DT. Benefits of a virtual play rehabilitation environment for children with cerebral palsy on perceptions of self-efficacy: a pilot study. *Pediatric Rehabilitation.* 2002; 5:141-184.

19. Logan KR, Bakeman , Keefe EG. Effects of instructional variables of engaged behavior intervention in a home setting with children with autism. *J of Positive Behavior Intervention.* 1997; 4:53-60.

20. O’Donovan C, Hirsch E, Holohan E, et al. Energy expended playing Xbox Kinect and Wii games: a preliminary study comparing single and multiplayer modes. *Physiotherapy.* 2012; 98(3); 224-229.

21. Bailey BW, McInnis K. Energy cost of exergaming: a comparison of the energy cost of 6 forms of exergaming. *Archives Pediatric Medicine.* 2011; 165 (7): 597-602.

22. Reilly JJ, Physical activity, sedentary behavior and energy balance in the preschool child: opportunities for obesity prevention. *Proc Nutr Soc.* 2008; 67(3): 17-325.

23. Neisser U. What are the important questions? In: Gruneberg MM, Sykes RN eds. *Practical Aspects of Memory.* London: Academic Press; 1978: 3-24.

24. Schmidt, R. *Motor Control And Learning-A Behavioral Emphasis.* Champaign, Illinois: Human Kinetics Publisher, Inc; 1988.

25. Wulf G, Lauterbach B, Toole T. The learning advantages of an external focus of attention in golf. *Res Q Exerc Sport.* 1999; 70(2):120-126.

26. Wulf G, Prinz W. Directing attention to movement enhances learning. *Psychon Bull Rev.* 2001; 8(4): 648-60.

27. Wulf G, Landers M, Lewthewaite R, et al. External focus instructions reduce postural instability in individuals with Parkinson’s disease. *Physical Therapy.* 2009; 89:162-168.

28. Paez S, Maloney A, Kelsey K, et al. Parental and environmental factors associated with physical activity among children participating in an active video game. *Pediatric Physical Therapy* 2009; 21(3):245-253.

**Additional References:**

Bryanton C, Bosse J, Brien M, et al. Feasability, motivation, and selective motor control: virtual reality compared to conventional home exercise in children with cerebral palsy. *Cyberpsychol Beh.* 2006; 9:123-128.

Tong J, Zhou J, Liu L, et al. Scanning 3D Full Human Bodies using Kinects. *IEE Computer Society.* 2012; 18(4): 643-650.

Lange B, Chang CY, Suma E, et al. Development and Evaluation of a Low Cost Game-Based Balance Rehabilitation Tool using the Microsoft Kinect Sensor. IEEE EMBS-33rd Annual International Conference. 2011; 1831-1834.

Williams B, Doherty NL, Bender A. The Effect of Nintendo Wii on Balance: A Pilot Study Supporting the Use of the Wii in Occupational Therapy for the Well Elderly. *Occupational Therapy in Health Care.* 2011; 25(2):131-139.

Shumway-Cook A, Hutchinson S, Kartin D, et al. Effect of balance training on the recovery of stability in children with cerebral palsy. *Dev Med Child Neurology.* 2003; 45:591-602.

Salem Y, Gropack S, Coffin D, et al. Effectiveness of a low-cost virtual reality system for children with developmental delay: a preliminary randomized single-blind controlled trial. *Physiotherapy*. 2012; 98: 189-195.

Brettler A, Deutsch JE, Guarrera-Bowlby P, et al. Nintendo Wii sports and Wii fit game analysis, validation, and application to stroke rehabilitation. *Topics in Stroke Rehabilitation.* 2011;18(6): 1-53.

Viau A, Feldman AG, McFadyen BJ, et al. Reaching in reality and virtual reality: a comparison of movement kinematics in healthy subjects and in adults with hemiparesis. *J Neuroeng Rehabil.* 2004; 1(1):11.