LSVT GLOBAL

REFERENCES ON LSVT BIG®

Updated 1/2024

Data-based articles evaluating the efficacy of the LSVT BIG

Clarkin, C. M., Ward-Ritacco, C. L., & Mahler, L. (2024). Exercise-Induced Functional Changes in People with Parkinson's Disease following External Cueing and Task-Based Intervention. *Rehabilitation research and practice*, *2024*, 6188546. https://doi.org/10.1155/2024/6188546

Kaya Aytutuldu, G., Ersoz Huseyinsinoglu, B., Karagoz Sakalli, N., Sen, A., & Yeldan, I. (2024). LSVT® BIG versus progressive structured mobility training through synchronous telerehabilitation in Parkinson's disease: A randomized controlled trial. *Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology*, 10.1007/s10072-024-07322-0. Advance online publication. https://doi.org/10.1007/s10072-024-07322-0

Hirakawa, Y., Takeda, K.; Koyama, S.; Iwai, M; Motoya, I.; Sakurai, H.; Kanada, Y.; Kawamura, N.; Kawamura, M.; & Tanabe, S. (2023): Effect of the Lee Silverman Voice Treatment BIG® on motor symptoms in a participant with progressive supranuclear palsy: A case report, *Physiotherapy Theory and Practice*, DOI: 10.1080/09593985.2023.2225588

Matsuno, A., Matsushima, A., Saito, M., Sakurai, K., Kobayashi, K., & Sekijima, Y. (2023). Quantitative assessment of the gait improvement effect of LSVT BIG® using a wearable sensor in patients with Parkinson's disease. *Heliyon*, *9*(6), e16952. https://doi.org/10.1016/j.heliyon.2023.e16952

Ekmekyapar Fırat, Y., Turgay, T., Soğan, S. S., & Günel Karadeniz, P. (2023). Effects of LSVT-BIG via telerehabilitation on non-motor and motor symptoms and quality of life in Parkinson's disease. *Acta neurologica Belgica*, *123*(1), 207–214. https://doi.org/10.1007/s13760-022-02104-x

Fleming Walsh, S., Balster, C., Chandler, A., Brown, J., Boehler, M., & O'Rear, S. (2022). LSVT BIG® and long-term retention of functional gains in individuals with Parkinson's disease. *Physiotherapy theory and practice*, *38*(5), 629–636. https://doi.org/10.1080/09593985.2020.1780655

Doucet, B. M., Blanchard, M., & Bienvenu, F. (2021). Occupational Performance and Hand Function in People With Parkinson's Disease After Participation in Lee Silverman Voice Treatment (LSVT) BIG®. *The American journal of occupational therapy : official publication of the American Occupational Therapy Association*, 75(6), 7506205010. https://doi.org/10.5014/ajot.2021.042101

Henry W, Cline S, Araujo AC, Ayres N, Gabrielson M, Mears C and Thibault R. (2021). Utilizing Telehealth to Deliver LSVT BIG Treatment for Young Onset Parkinson Disease: A Case Report. *Phys Ther Rehabil.* 8:7. http://dx.doi.org/10.7243/2055-2386-8-7

Hirakawa, Y., Koyama, S., Takeda, K., Iwai, M., Motoya, I., Sakurai, H., Kanada, Y., Kawamura, N., Kawamura, M., & Tanabe, S. (2021). Short-term effect and its retention of LSVT® BIG on QOL improvement: 1-year follow-up in a patient with Parkinson's disease. *NeuroRehabilitation*, 10.3233/NRE-210129. Advance online publication. https://doi.org/10.3233/NRE-210129

Hirakawa, Y., Takeda, K., Koyama, S., Naoi, Y., Matsushita, T., Nagai, T., Motoya, I., Sakurai, H., Kanada, Y., Kawamura, N., Kawamura, M., & Tanabe, S. (2021). Effect of Lee Silverman Voice Treatment (LSVT)® BIG on motor symptoms in a patient with severe Parkinson's disease: a case report. *Physiotherapy theory and practice*, 1–10. Advance online publication. https://doi.org/10.1080/09593985.2021.1938304

Proffitt, R., Henderson, W., Stupps, M., Binder, L., Irlmeier, B., & Knapp, E. (2021) Feasibility of the Lee Silverman Voice Treatment – BIG intervention in stroke. *OTJR: Occupation, Participation and Health,* 41(1), 40-46. https://doi.org/10.1177/1539449220932908

Schaible, F., Maier, F., Buchwitz, T. M., Schwartz, F., Hoock, M., Schönau, E., Libuda, M., Hordt, A., van Eimeren, T., Timmermann, L., & Eggers, C. (2021). Effects of Lee Silverman Voice Treatment BIG and conventional physiotherapy on non-motor and motor symptoms in Parkinson's disease: a randomized controlled study comparing three exercise models. Therapeutic advances in neurological disorders, 14, 1756286420986744. https://doi.org/10.1177/1756286420986744

Fishel, S. C., Hotchkiss, M. E., & Brown, S. A. (2020). The impact of LSVT BIG therapy on postural control for individuals with Parkinson disease: A case series. Physiotherapy theory and practice, 36(7), 834–843. https://doi.org/10.1080/09593985.2018.1508260

Flood, M.W., O'Callaghan, B.P.F., Diamond P., Liegey J., Hughes G., Lowery M.M. (2020). Quantitative clinical assessment of motor function during and following LSVT-BIG® therapy. *J Neuroeng Rehabil*, Jul 13;17(1):92. https://doi.org/10.1186/s12984-020-00729-8

Peterka, M., Odorfer, T., Schwab, M., Volkmann, J., & Zeller, D. (2020). LSVT-BIG therapy in Parkinson's disease: physiological evidence for proprioceptive recalibration. *BMC neurology*, 20(1), 276. https://doi.org/10.1186/s12883-020-01858-2

Fillmore, S., Cavalier, G., Franke, H., Hajec, M., Thomas, A., & Moriello, G. (2020) Outcomes following LSVT BIG in a person with normal pressure hydrocephalus: A case report. *Journal of Neurologic Physical Therapy,* 44(3), 220-227. https://doi.org/10.1097/NPT.0000000000000319

Henderson, W., Boone, A. E., Heady, J., Nettleton, M., Wilhelm, T., & Bliss, J. (2020). Use of Occupation-Based Measures in LSVT BIG Research: A Case Study. *OTJR: Occupation, Participation and Health.* 40(2), 131-137. https://doi.org/10.1177/1539449219886261

Hampton, B. A., Tunney, N., & Dubal, D. (2019). Impact of LSVT BIG on functional outcomes in a patient with Parkinson's disease: a case study. *GeriNotes,* 26(1), 20–23.

Kleppang, T. T., & Jørgensen, L. (2019). Dynamic balance and gait speed improve in persons with Parkinson's disease after Lee Silverman Voice Treatment (LSVT) BIG training: a single subject experimental design study. *European Journal of Physiotherapy,* 1–11.

Metcalfe, V., Egan, M., Sauvé-Schenk, K. (2019) LSVT BIG in late stroke rehabilitation: A single-case experimental design study. *Canadian Journal of Occupational Therapy*, 86(2):87-94.

Chatto, C. A., York, P. T., Slade, C. P., & Hasson, S. M. (2018). Use of a telehealth system to enhance a home exercise program for a person with Parkinson disease: a case report. *Journal of Neurologic Physical Therapy*, 42(1), 22–29.

Isaacson, S., O'Brien, A., Lazaro, J.D., Ray, A., Fluet, F. (2018). The JFK BIG study: the impact of LSVT BIG® on dual task walking and mobility in persons with Parkinson's disease. *The Journal of Physical Therapy Science*, 30: 636–641.

Pascal, M. R., Ehlers, D., & Hindman, R. (2018). The effects of LSVT BIG home exercises and T'ai Chi on balance and gait in an individual with Parkinson's disease: a case study. *Physical Therapy and Rehabilitatio*n, 5(1), 1–4.

Proffitt RM, Henderson W, Scholl S, Nettleton M. (2018) Lee Silverman Voice Treatment BIG® for a Person with Stroke. *American Journal of Occupational Therapy,* 72(5):7205210010p1–7205210010p6.

Millage, B., Vesey, E., Finkelstein, M., & Anheluk, M. (2017). Effect on Gait Speed, Balance, Motor Symptom Rating, and Quality of Life in Those with Stage I Parkinson's Disease Utilizing LSVT BIG®. *Rehabilitation Research and Practice*, 2017, 1-8.

Sundaran, A., & Velmurugan, G. (2017). Effectiveness of LSVT big exercise to improve balance in mild to moderate stage Parkinsons patients. *International Journal of Medical and Exercise Science,* 3(3), 300-311.

Ueno, T., Sasaki, M., Nishijima, H., Funamizu, Y., Kon, T., Haga, R., Arai, A., Suzuki, C., Nunomura, J, Baba, M, Tomiyama, M. (2017). LSVT_BIG Improves UPDRS III Scores at 4 Weeks in Parkinson's Disease Patients with Wearing Off: A Prospective, Open-Label Study. *Parkinson's Disease*, *2017*,8130140.

Walter, K., Pizzichetta, K., Metz, J., DiCarlo, D., Sieban, A., Toscano, M., Atkins, D., Benitez, J., Babyar, S. (2017). Improved function and geriatric depression scale profile in outpatients with Parkinson's disease through the participation in Lee Silverman Voice Therapy BIG® program. *Physical Medicine and Rehabilitation Research,* 2(4): 1-6.

Dashtipour, K., Johnson, E., Kani, C., Kani, K., Hadi, E., Ghamsary, M., Chen, J. J. (2015). Effect of exercise on motor and nonmotor symptoms of Parkinson's disease. *Parkinson's Disease, 2015,* 586378.

Ebersbach G, Grust U, Ebersbach A, Wegner B, Gandor F, Kuhn AA. (2015). Amplitude-oriented exercise in Parkinson's disease: a randomized study comparing LSVT-BIG and a short training protocol. *Journal of Neural Transmission,* 122(2), 253-6.

Janssens J, Malfroid K, Nyffeler T, Bohlhalter S, Vanbellingen T. (2014). Application of LSVT BIG intervention to address gait, balance, bed mobility, and dexterity in people with Parkinson disease: a case series. *Physical Therapy,* 94(7), 1014-23.

Ebersbach G, Ebersbach A, Gandor F, Wegner B, Wissel J, Kupsch A. (2014). Impact of physical exercise on reaction time in patients with Parkinson's disease-data from the Berlin BIG Study. *Archives of Physical Medicine and Rehabilitation,* 95(5), 996-9.

Ebersbach, G., Ebersbach, A., Edler, D., Kaufhold, O., Kusch, M., Kupsch, A., & Wissel, J. (2010). Comparing exercise in Parkinson's disease--the Berlin LSVT® BIG study. *Movement Disorders,* 25(12), 1902-8.

Farley, B.G., and Koshland, G.F. (2005). Training BIG to move faster: the application of the speed amplitude relation as a rehabilitation strategy for people with Parkinson's disease. *Experimental Brain Research,* 167(3), 462-7.

Review papers

Wang, Y., Sun, X., Li, F., Li, Q., & Jin, Y. (2022). Efficacy of non-pharmacological interventions for depression in individuals with Parkinson's disease: A systematic review and network meta-analysis. Frontiers in aging neuroscience, 14, 1050715. https://doi.org/10.3389/fnagi.2022.1050715

McDonnell, M. N., Rischbieth, B., Schammer, T. T., Seaforth, C., Shaw, A. J., & Phillips, A. C. (2018). Lee Silverman Voice Treatment (LSVT) BIG to improve motor function in people with Parkinson's disease: A systematic review and meta-analysis. Clinical Rehabilitation, 32(5), 607-618. https://doi.org/10.1177/0269215517734385

Fox, C., Ebersbach, G., Ramig, L., & Sapir, S. (2012). LSVT LOUD and LSVT BIG: Behavioral treatment programs for speech and body movement in Parkinson disease. Parkinson's Disease, 2012, 1-12. http://doi.org/10.1155/2012/391946

Farley, B. G., Fox, C. M., Ramig, L. O., & McFarland, D. H. (2008). Intensive amplitude-specific therapeutic approaches for Parkinson's disease: Toward a neuroplasticity-principled rehabilitation model. Topics in Geriatric Rehabilitation, 24(2), 99-114. https://doi.org/ 10.1097/01.TGR.0000318898.87690.0d