

**List S1: Excluded articles and reasons.**

**EXCLUDED ARTICLES BASED ON EXCLUSION CRITERIA (n = 60)**

*No diabetes (n = 5)*

Fukuda, K.; Kanazawa, H.; Aizawa, Y.; Ardell, J.L.; Shivkumar, K. Cardiac Innervation and Sudden Cardiac Death. *Circ Res* **2015**, *116*, 2005–2019.

Femery, V.G.; Moretto, P.G.; Hespel, J.-M.G.; Thévenon, A.; Lensel, G. A Real-Time Plantar Pressure Feedback Device for Foot Unloading. *Arch Phys Med Rehabil* **2004**, *85*, 1724–1728.

Klein, R.M.; Mann, R.J.; Walling, A.D. A Thematic Approach to Enhance Clinical Content in a Cell and Tissue Biology Course. *Academic Medicine* **2002**, *77*, 1173–1174.

Pinto, M.V.; Barreira, A.A.; Bulle, A.S.; de Freitas, M.R.G.; França, M.C.; Gondim, F.A.A.; Marrone, C.D.; Marques, W.; Nascimento, O.J.M.; Rotta, F.T.; et al. Brazilian Consensus for Diagnosis, Management and Treatment of Transthyretin Familial Amyloid Polyneuropathy | Consenso Brasileiro Para o Diagnóstico, Manejo e Tratamento Da Polineuropatia Amiloidótica Familiar Associada à Transtirretina. *Arq Neuropsiquiatr* **2018**, *76*, 609–621.

Templeton, C.A.; Strzalkowski, N.D.J.; Galvin, P.; Bent, L.R. Cutaneous Sensitivity in Unilateral Trans-Tibial Amputees. *PLoS One* **2018**, *13*.

*No treatment (n = 26)*

Cavanagh, P.R.; Simoneau, G.G.; Ulbrecht, J.S. Ulceration, Unsteadiness, and Uncertainty: The Biomechanical Consequences of Diabetes Mellitus. *J Biomech* **1993**, *26*.

Demarin, V.; Bašić-Kes, V.; Zavoreo, I.; Bosnar-Puretić, M.; Rotim, K.; Lupret, V.; Perić, M.; Ivanec, Ž.; Fumić, L.; Lušić, I.; et al. Ad Hoc Committee of the Croatian Society for Neurovascular Disorders, Croatian Medical Association: Recommendations for Neuropathic Pain Treatment. *Acta Clin Croat* **2008**, *47*, 181–191.

Dingwell, J.B.; Cusumano, J.P. Nonlinear Time Series Analysis of Normal and Pathological Human Walking. *Chaos* **2000**, *10*, 848–863.

Dingwell, J.B.; Kang, H.G.; Marin, L.C. The Effects of Sensory Loss and Walking Speed on the Orbital Dynamic Stability of Human Walking. *J Biomech* **2007**, *40*, 1723–1730.

Ettinger, L.R.; Boucher, A.; Simonovich, E. Patients with Type 2 Diabetes Demonstrate Proprioceptive Deficit in the Knee. *World J Diabetes* **2018**, *9*, 59–65.

- Gomes, A.A.; Onodera, A.N.; Otuzi, M.E.I.; Pripas, D.; Mezzarane, R.A.; Sacco, I.C.N. Electromyography and Kinematic Changes of Gait Cycle at Different Cadences in Diabetic Neuropathic Individuals. *Muscle Nerve* **2011**, *44*, 258–268.
- Grewal, G.; Sayeed, R.; Yeschek, S.; Menzies, R.A.; Talal, T.K.; Lavery, L.A.; Armstrong, D.G.; Najafi, B. Virtualizing the Assessment: A Novel Pragmatic Paradigm to Evaluate Lower Extremity Joint Perception in Diabetes. *Gerontology* **2012**, *58*, 463–471.
- Grewal, G.S.; Bharara, M.; Menzies, R.; Talal, T.K.; Armstrong, D.; Najafi, B. Diabetic Peripheral Neuropathy and Gait: Does Footwear Modify This Association? *J Diabetes Sci Technol* **2013**, *7*, 1138–1146.
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*No clinical trials (n = 12)*

Ramdharry, G. Peripheral Nerve Disease. In *Handbook of Clinical Neurology*; **2018**; Vol. 159, pp. 403–415.

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- No gait/balance (*n* = 7)
- Heinen, A.; Lehmann, H.C.; Küry, P. Negative Regulators of Schwann Cell Differentiation - Novel Targets for Peripheral Nerve Therapies? *J Clin Immunol* **2013**, 33.
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- Chatwin, K.E.; Abbott, C.A.; Reddy, P.N.; Bowling, F.L.; Boulton, A.J.M.; Reeves, N.D. A Foreign Body Through the Shoe of a Person With Diabetic Peripheral Neuropathy Alters Contralateral Biomechanics: Captured Through Innovative Plantar Pressure Technology. *International Journal of Lower Extremity Wounds* **2018**, 17, 125–129.
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Treister, R.; Lawal, O.D.; Shecter, J.D.; Khurana, N.; Bothmer, J.; Field, M.; Harte, S.E.; Kruger, G.H.; Katz, N.P. Accurate Pain Reporting Training Diminishes the Placebo Response: Results from a Randomised, Double-Blind, Crossover Trial. *PLoS One* **2018**, *13*.

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*No VR/FB (n = 5)*

Alaee, S.J.; Barati, K.; Hajiaghaei, B.; Ghomian, B.; Moradi, S.; Poorpirali, M. Immediate Effect of Textured Insoles on the Balance in Patients with Diabetic Neuropathy. *J Diabetes Investig* **2022**.

Beauchesne N, Wagenaar-Tison A, Brousseau-Foley M, Moisan G, Cantin V, Blanchette V. Using a contralateral shoe lift to reduce gait deterioration during an offloading fast walk setting in diabetic peripheral neuropathy: A comparative feasibility study. *Diabetes Res Clin Pract.* **2023**, *199*:110647. doi: 10.1016/j.diabres.2023.110647.

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Prókai J, Murlasits Z, Bánhidi M, Csóka L, Gréci V, Atlasz T, Váczi M. The Effects of a 12-Week-Long Sand Exercise Training Program on Neuromechanical and Functional Parameters in Type II Diabetic Patients with Neuropathy. *Int J Environ Res Public Health.* **2023**, *20*(7):5413. doi: 10.3390/ijerph20075413.

*Contemporaneous FB/No pre-post (n = 1)*

Naemi R., Healy A., Chockalingam N., Sundar L., Pillai A., Seeli\_Abraham C., Snehalatha C., Ramachandran A. The contribution of visual feedback to balance in people with Type 2 diabetes and neuropathy. *Diabetic Medicine* **2013** *30 SUPPL. 1* (70-71)

**FULL-TEXT ARTICLES EXCLUDED (n = 10)**

*VR/FB only evaluative (n = 6)*

Ahmad, I.; Noohu, M.M.; Verma, S.; Singla, D.; Hussain, M.E. Effect of Sensorimotor Training on Balance Measures and Proprioception among Middle and Older Age Adults with Diabetic Peripheral Neuropathy. *Gait Posture* **2019**, *74*, 114–120.

Abdul Razzak R., Hussein W. Postural visual dependence in asymptomatic type 2 diabetic patients without peripheral neuropathy during a postural challenging task. *J Diabetes Complications*. **2016**, *30*(3):501-6. doi: 10.1016/j.jdiacomp.2015.12.016.

Ahmed M.M., Mosalem D.M., Tarshouby W.A., Alfeeli A.K., Baqer A.B., Mohamed M.H. Computerized dynamic posturography in patients with diabetic peripheral neuropathy and visual feedback-based balance training effects (**2014**), *7* (2), pp. 267 – 272 DOI: 10.3889/MJMS.1857-5773.2014.0395

Huang C.-K., Siu K.-C., Shivaswamy V., Thaisetthawatkul P., Stergiou N. The Impact of Diabetic Peripheral Neuropathy on Patient's Balance Ability and Stepping Strategy – a Virtual Obstacle Crossing Study. *Archives of Physical Medicine and Rehabilitation* **2020**, *101*:11 (e108-e109)

Najafi B., Bharara M., Talal T.K., Armstrong D.G. Advances in balance assessment and balance training for diabetes. *Diabetes Management* **2012** *2*:4 (293-308)

Villegas C.M., Curinao J.L., Aqueveque D.C., Guerrero-Henríquez J., Matamala M.V. Identifying neuropathies through time series analysis of postural tests (**2023**), *99*, pp. 24 – 34 DOI: 10.1016/j.gaitpost.2022.09.090

*No gait/balance/risk of falling evaluation (n = 4)*

De León Rodriguez, D.; Allet, L.; Golay, A.; Philippe, J.; Assal, J.P.; Hauert, C.A.; Pataky, Z. Biofeedback Can Reduce Foot Pressure to a Safe Level and without Causing New At-Risk Zones in Patients with Diabetes and Peripheral Neuropathy. *Diabetes Metab Res Rev* **2013**, *29*, 139–144.

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York, R.M.; Perell-Gerson, K.L.; Barr, M.; Durham, J.; Roper, J.M. Motor Learning of a Gait Pattern to Reduce Forefoot Plantar Pressures in Individuals with Diabetic Peripheral Neuropathy. *PM and R* **2009**, *1*, 434–441.