

DAFTAR PUSTAKA

- Achwan, A., Utami, D., & Achirda, N. (2024). Dual-Task Training dan edukasi menurunkan tingkat risiko jatuh pada lansia di PSTW Budi Mulia IV Jakarta Timur. *Jurnal Fisioterapi dan Kesehatan Indonesia*, 4(01), 150–159.
- Aichele, S., Payton, A., Robinson, A. C., & Rabbitt, P. (2024). Occupation-related differences in cognitive aging: Comparative effects of job type, skill level, and education. *Intelligence*, 107, 101877. <https://doi.org/10.1016/j.intell.2024.101877>
- Anjasmara, B., Widanti, H. N., & Mulyadi, S. Y. (2021). Kombinasi calf raise exercise dan core stability exercise dapat meningkatkan keseimbangan tubuh pada mahasiswa jurusan fisioterapi Poltekkes Kemenkes Makassar. *Physiotherapy Health Science (PhysioHS)*, 3(1), 46–52. <https://doi.org/10.22219/physiohs.v3i1.17162>
- Baek, C. Y., Kim, H. D., Yoo, D. Y., Kang, K. Y., & Lee, J. W. (2023). Change in activity patterns in the prefrontal cortex in different phases during the dual-task walking in older adults. *Journal of NeuroEngineering and Rehabilitation*, 20(1). <https://doi.org/10.1186/s12984-023-01211-x>
- Baek, J. E., Hyeon, S. J., Kim, M., Cho, H. Y., & Hahm, S. C. (2024). Effects of dual-task resistance exercise on cognition, mood, depression, functional fitness, and activities of daily living in older adults with cognitive impairment: A single-blinded, randomized controlled trial. *BMC Geriatrics*, 24(1), 369.
- Badan Pusat Statistik. (2021). *Statistik Penduduk Lanjut Usia di Indonesia 2021*.
- Campos-Magdaleno, M., Pereiro, A., Navarro-Pardo, E., Juncos-Rabadán, O., & Facal, D. (2021). Dual-task performance in old adults: Cognitive, functional, psychosocial and socio-demographic variables. *Aging Clinical and Experimental Research*, 34(4), 827–835. <https://doi.org/10.1007/s40520-021-02002-x>
- Candraningtyas, P. N., Muntanawasitoh, A. R., & Romadhoni, D. L. (2024). Pengaruh pemberian dual task training terhadap penurunan risiko jatuh pada lansia. *Indonesian Journal of Physiotherapy*. <https://doi.org/10.52019/ijpt.v4i2.9242>
- Chen, T. Y., et al. (2023). Education level and dual-task performance in older adults: A cross-sectional study. *Journal of Gerontology: Medical Sciences*, 78(4), 567–574.
- Donggio, A. S. P., Ariyanto, A., Norlinta, S. N. O., & Mumpuni, D. R. (2022).

Efektivitas square stepping exercise dan balance exercise terhadap peningkatan keseimbangan dinamis pada lansia: Narrative review.

- Failia, E., Andriani, A., Destri, N., & Avis, M. A. (2023). Efektivitas dual-task training motorik-kognitif dalam menurunkan risiko jatuh pada lansia di Poliklinik RSI Ibnu Sina Padang Tahun 2023. *Jurnal Kesehatan Lentera 'Aisyiyah*, 6(2), 794–801.
- Fragala, M. S., Clark, M. H., Walsh, S. J., Kleppinger, A., Judge, J. O., Kuchel, G. A., & Kenny, A. M. (2012). Gender differences in anthropometric predictors of physical performance in older adults. *Gender Medicine*, 9(6), 445–456. <https://doi.org/10.1016/j.genm.2012.10.004>
- Georgantas, A., Stefani, P., Lyros, E., Chytas, D., & Christakou, A. (2024). Examining performance between different cognitive-motor dual-task tests in community-dwelling older adults. *Applied Sciences*, 14(17), 7957. <https://doi.org/10.3390/app14177957>
- Goh, H.-T., Ganapathy, S., Xiao, S., Porterfield, N., Beattie, Z., Sharma, N., ... & Lévesque, L. (2021). Dual-task costs in gait speed differ across age groups: A cross-sectional analysis of 145 adults aged 20–99 years. *PMC*, 8681831.
- Goh, H.-T., Pearce, M., & Vas, A. (2021a). Task matters: An investigation on the effect of different secondary tasks on dual-task gait in older adults. *BMC Geriatrics*, 21(1). <https://doi.org/10.1186/s12877-021-02464-8>
- Haro, M., Sudharmono, U., Sitompul, M., Wulandari, I. S. M., Malinti, E., & Wulandari, I. S. M. (2024). Edukasi dan pemberdayaan lansia. *Jurnal Kreativitas Pengabdian Kepada Masyarakat*, 7(3), 1221–1235. <https://doi.org/10.33024/jkpm.v7i3.13372>
- Hofheinz, M., & Mibs, M. (2016). The prognostic validity of the timed up and go test with a dual task for predicting the risk of falls in the elderly. *Gerontology and Geriatric Medicine*, 2. <https://doi.org/10.1177/2333721416637798>
- Hutasuhut, A. F., Anggraini, M., & Angnesti, R. (2020). Analisis fungsi kognitif pada lansia. *Jurnal Psikologi Malahayati*, 2(1). <https://doi.org/10.33024/jpm.v2i1.2428>
- Jawabri, K. H., & Sharma, S. (2023). Physiology, cerebral cortex functions. *StatPearls*.
- Jasmita, R. (2024). Pengaruh dukungan sosial dan kesejahteraan psikologis terhadap loneliness pada lansia. *CONS-IEDU*, 4(1), 11–25. <https://doi.org/10.51192/cons.v4i1.849>
- K. H., & Sharma, S. (2023). Physiology, cerebral cortex functions. In *StatPearls*. StatPearls Publishing. <https://www.ncbi.nlm.nih.gov/books/NBK538496/>

- Kim, M., et al. (2024). Effects of dual-task resistance exercise on cognition, mood, depression, functional fitness, and activities of daily living in older adults with cognitive impairment: A single-blinded, randomized controlled trial. *BMC Geriatrics*, 24, Article 369.
- Kline, P. W., Shaikh, F. D., Tennant, J. E., Hamel, R., & Zukowski, L. A. (2024). Global cognition, gender, and level of education predict dual-task gait speed variability metrics in older adults. *Gerontology*, 70(7), 724–731. <https://doi.org/10.1159/000537720>
- Kurniawati, N., Berbudi, A., & Mumpuni, D. R. (2021). Hubungan fungsi kognitif terhadap keseimbangan pada lansia di Panti Sosial Tresna Werdha Budi Mulia 4 Jakarta. *Jurnal Fisioterapi dan Kesehatan Indonesia*, 1, 76–83.
- Lee, J., & Kim, H.-J. (2022). Normal aging induces changes in the brain and neurodegeneration progress: Review of the structural, biochemical, metabolic, cellular, and molecular changes. *Frontiers in Aging Neuroscience*, 14. <https://doi.org/10.3389/fnagi.2022.931536>
- Longhurst, J. K., Wise, M. A., Krist, D. J., Moreland, C. A., Basterrechea, J. A., & Landers, M. R. (2020). Brain volumes and dual-task performance correlates among individuals with cognitive impairment: A retrospective analysis. *Journal of Neural Transmission*, 127(7), 1057–1071. <https://doi.org/10.1007/s00702-020-02199-7>
- Mou, C., & Jiang, Y. (2025). Effect of dual task-based training on motor and cognitive function in stroke patients: A systematic review and meta-analysis of randomized controlled trials. *BMC Neurology*, 25(1). <https://doi.org/10.1186/s12883-025-04305-2>
- Muanjai, P., Namsawang, J., Satkunsienè, D., & Kamandulis, S. (2022). Associations between muscle-tendon morphology and functional movements capacity, flexibility, and balance in older women. *International Journal of Environmental Research and Public Health*, 19(23), 16099.
- Nascimento, M. D. M., Maduro, P. A., Rios, P. M. B., Nascimento, L. D. S., Silva, C. N., Kliegel, M., & Ihle, A. (2023). The effects of 12-week dual-task physical–cognitive training on gait, balance, lower extremity muscle strength, and cognition in older adult women: A randomized study. *International Journal of Environmental Research and Public Health*, 20(8), 5498.
- Nerobkova, N., Park, Y. S., Shin, J., & Park, E.-C. (2022). Marital transition and cognitive function among older adults: The Korean Longitudinal Study of Aging (2006–2020). *BMC Geriatrics*, 22(1). <https://doi.org/10.1186/s12877-022-03697-x>
- Novianti, I. G. A. S. W., & Naufal, J. (2023, September). Hubungan usia dan jenis

kelamin dengan risiko jatuh pada lansia di Banjar Paang Tebel Peguyangan Kaja. *Annual Physiotherapy Scientific Meeting Proceeding*, 27–32.

- Nuraeni, E., dkk. (2022). Dukungan keluarga dengan kualitas hidup lansia hipertensi di Puskesmas Balaraja. *Prosiding Simposium Nasional Multidisiplin (SinaMu)*, 2. <https://doi.org/10.31000/sinamu.v2i0.5740>
- Oktavian, A., Laksono, T., FT, S. S., PT, M., & Putro, P. D. (2021). Pengaruh pemberian dual task training terhadap peningkatan keseimbangan pada lansia dengan gangguan kognitif: Narrative review.
- Papegaaij, S., Hortobágyi, T., Godde, B., Kaan, W. A., Erhard, P., & Voelcker-Rehage, C. (2017). Neural correlates of motor-cognitive dual-tasking. *PLOS ONE*, 12(12), e0189025. <https://doi.org/10.1371/journal.pone.0189025>
- Pohl, P. S., Ahlskog, K., Nordin, E., Lundin-Olsson, L., & Shumway-Cook, A. (2017). Age-related decrements in dual-task performance: Comparison of different mobility and cognitive tasks. *PLOS ONE*, 12(7), e0181698. <https://doi.org/10.1371/journal.pone.0181698>
- Prahasasgita, M. S., & Lestari, M. D. (2023). Stimulasi fungsi kognitif pada lanjut usia di Indonesia. *Buletin Psikologi*, 31(2), 247. <https://doi.org/10.22146/buletinpsikologi.80371>
- Pratama, A. D. (n.d.). Pengaruh pemberian dual task training terhadap penurunan risiko jatuh pada kasus stroke iskemik. *Jurnal Sosial Humaniora Terapan*, 3.
- Purnama Sari, I., Frisca, S., Pranata, L., & Katolik Musi Charitas Palembang, U. (2019). Overview of fall risk in the elderly in elderly social care institutions. *Jurnal Ilmiah Bakti Farmasi*, 2.
- Purnamasari, N. (2019). Efektivitas dual-task training motorik-kognitif dalam menurunkan risiko jatuh pada lansia. *Media Kesehatan Masyarakat Indonesia*, 15(3), 284. <https://doi.org/10.30597/mkmi.v15i3.7019>
- Putra, G. A. G. B., Parwata, I. M. Y., & Vitalistyawati, L. P. A. (2023). Hubungan indeks massa tubuh terhadap keseimbangan lansia di Desa Batubulan. *Jurnal Kesehatan, Sains, dan Teknologi (JAKASAKTI)*, 2(3). <https://doi.org/10.36002/js.v2i3.2691>
- Rahmawati, H., Astriyana, S., & Prabandari, F. I. (2025). Systematic review: Pengaruh pemberian dual task training terhadap keseimbangan dan kognitif pada lansia. *Jurnal Penelitian Perawat Profesional*, 7(1).
- Rahayu, N. L. V., Antari, N. K. A. J., Wibawa, A., & Juhanna, I. V. (2023). Gangguan fungsi kognitif berhubungan dengan keseimbangan postural pada lansia. *Majalah Ilmiah Fisioterapi Indonesia*, 11(2), 156. <https://doi.org/10.24843/mifi.2023.v11.i02.p09>

- Sari, M. E., Komalasari, D. R., -, W., & Naufal, A. F. (2022). Hubungan kekuatan otot ekstremitas bawah. *Physio Journal*, 2(2), 61–74. <https://doi.org/10.30787/phyjou.v2i2.894>
- Semmler, J., & Cirillo, J. (2011). Exercise can help rewire the brain. *Physiology News*, 26–28. <https://doi.org/10.36866/pn.81.26>
- Shilpi, P., Nenavath, P., & Jha, A. (2024). The effect of motor dual-task balance training on balance and gait of elderly women. *International Journal for Multidisciplinary Research*, 6(4). <https://doi.org/10.36948/ijfmr.2024.v06i04.25590>
- Shumway-Cook, A., Brauer, S., & Woollacott, M. (2000). Predicting the probability for falls in community-dwelling older adults using the timed up & go test. *Physical Therapy*, 80(9), 896–903. <https://doi.org/10.1093/ptj/80.9.896>
- Sirada, A., Nazhira, F., & Mailani, R. (2022). Pengaruh pelatihan Ai Chi terhadap peningkatan performa dual task pada lansia. *Indonesian Journal of Physiotherapy*, 2(2), 132–136. <https://doi.org/10.52019/ijpt.v2i2.4160>
- Sialino, L. D., Schaap, L. A., van Oostrom, S. H., Picavet, H. S. J., Twisk, J. W. R., Verschuren, W. M. M., Visser, M., & Wijnhoven, H. A. H. (2021). The sex difference in gait speed among older adults: How do sociodemographic, lifestyle, social and health determinants contribute? *BMC Geriatrics*, 21(1). <https://doi.org/10.1186/s12877-021-02279-7>
- Smith, E., Cusack, T., & Blake, C. (2016). The effect of a dual task on gait speed in community dwelling older adults: A systematic review and meta-analysis. *Gait & Posture*, 44, 250–258. <https://doi.org/10.1016/j.gaitpost.2015.12.017>
- Smith, E., Cusack, T., Cunningham, C., & Blake, C. (2017). The influence of a cognitive dual task on the gait parameters of healthy older adults: A systematic review and meta-analysis. *Journal of Aging and Physical Activity*, 25(4), 671–686. <https://doi.org/10.1123/japa.2016-0265>
- Syah, I., & Febriyeni Utami, R. (2021). Aktivitas fisik dan kognitif berpengaruh terhadap keseimbangan lansia. *Human Care Journal*, 6(3), 748–753. <https://doi.org/10.32883/hcj.v6i3.1443>
- Syarif, M. F. I., Sariana, E., & Kurniawati, N. (2022). Pengaruh latihan dual-task training terhadap penurunan risiko jatuh pada pasien stroke di Klinik Bekasi Stroke and Parkinson Center. *Jurnal Fisioterapi dan Kesehatan Indonesia*, 2(2), 130–140.

- Thomas, E., Battaglia, G., Patti, A., Brusa, J., Leonardi, V., Palma, A., & Bellafiore, M. (2019). Physical activity programs for balance and fall prevention in elderly. *Medicine*, 98(27), e16218. <https://doi.org/10.1097/md.00000000000016218>
- Tong, Y., Rong, J., Tian, X., Wang, Y., Chen, Z., Adams, R., & Han, J. (2023). Use of dual-task timed-up-and-go tests for predicting falls in physically active, community-dwelling older adults: A prospective study. *Journal of Aging and Physical Activity*, 31(6), 948–955.
- Trioclarise, R., Lina, R. K., & Mustikasari, N. (2023). Efektivitas latihan tai chi. *Jurnal Fisioterapi dan Kesehatan Indonesia*, 3(1), 46–56. <https://doi.org/10.59946/jfki.2023.164>
- Trioclarise, R., Yani, S., Lina, R. K., & Kemenkes. (2021). Efektifitas dual task training terhadap memori jangka pendek. *Jurnal Fisioterapi dan Indonesia*, 1(2).
- Triyulianti, S., Muawanah, S., Samosir, N. R., & Soleha, A. (2025). Effect of motor-cognitive dual task training on cognitive function in patients with dementia. *Jurnal Teknologi Kesehatan Borneo*, 6(1), 28–36.
- Vallesi, A. (2015). Dual-task costs in aging are predicted by formal education. *Aging Clinical and Experimental Research*, 28(5), 959–964. <https://doi.org/10.1007/s40520-015-0385-5>
- Wang, C., Jin, B., & Lu, A. (2024). Effects of cognitive–motor and motor–motor dual tasks on gait performance in older adults with sarcopenia. *Healthcare*, 12(12), 1206. <https://doi.org/10.3390/healthcare12121206>
- Wang, Y., Sun, Y., Ren, X., Zhang, Q., Li, J., & Liu, Y. (2024). Gait characteristics during dual-task walking in elderly subjects of different ages. *PMC*, 10886897.
- Widagdo, W., Mutarobin, M., Mumpuni, M., & Susmadi, S. (2024). Effect of fall prevention education on the risk of falls in the elderly. *Journal of Health and Cardiovascular Nursing*, 4(1), 11–20. <https://doi.org/10.36082/jhcn.v4i1.1651>
- Xiao, T., Yang, L., Smith, L., Loprinzi, P. D., Veronese, N., Yao, J., Zhang, Z., & Yu, J. J. (2020). Correlation between cognition and balance among middle-aged and older adults observed through a Tai Chi intervention program. *Frontiers in Psychology*, 11. <https://doi.org/10.3389/fpsyg.2020.00668>
- Yiallouris, A., Tsioutis, C., Agapidaki, E., Zafeiri, M., Agouridis, A. P., Ntourakis, D., & Johnson, E. O. (2019). Adrenal aging and stress responsiveness. *Frontiers in Endocrinology*, 10. <https://doi.org/10.3389/fendo.2019.00054>
- Yuswatiningsih, E., & Suhariati, H. I. (2021). Hubungan tingkat pendidikan dengan

kemandirian lansia dalam memenuhi kebutuhan sehari-hari. *Hospital Majapahit*, 13(1).

Yuzlu, V., Oguz, S., Timurtas, E., Aykutoglu, E., & Polat, M. G. (2022). The effect of 2 different dual-task balance training methods on balance and gait in older adults: A randomized controlled trial. *Physical Therapy*, 102(3), pzab298.

Zhang, D., Zheng, W., & Li, K. (2024). The relationship between marital status and cognitive impairment in Chinese older adults: The multiple mediating effects of social support and depression. *BMC Geriatrics*, 24(1). <https://doi.org/10.1186/s12877-024-04975-6>

Zheng, Y., Meng, Z., Zhi, X., & Liang, Z. (2021). Dual-task training to improve cognitive impairment and walking function in Parkinson's disease patients: A brief review. *Sports Medicine and Health Science*, 3(4), 202–206. <https://doi.org/10.1016/j.smhs.2021.10.003>