

## DAFTAR PUSTAKA

- Adamo, D. E., & Taufiq, A. 2011. Establishing hand preference: Why does it matter? *Hand*, 6(3), 295–303. <https://doi.org/10.1007/s11552-011-9324-x>
- Ambike, S., Paclet, F., Zatsiorsky, V. M., & Latash, M. L. 2014. Factors affecting grip force: Anatomy, mechanics, and referent configurations Satyajit. *Experimental Brain Research*, 232(4), 1219–1231. <https://doi.org/10.1007/s00221-014-3838-8>. Factors
- Awotidebe, T. O., Olawoye, A. A., Fasakin, O. M., & Odetunde, M. O. 2021. Relationships between body somatotype and handgrip strength of young Nigerian undergraduate students. *Archives of Physiotherapy and Global Researches*, 25(1), 17–26. <https://doi.org/10.15442/apgr.25.1.2>
- Bilajac, L., Juraga, D., & Zuljevic, H. 2019. The influence of physical Activity on handgrip strength of elderly. *Archive of Gerontology and Geriatrics Research*, 4(1), 020–024. <https://doi.org/10.17352/aggr.000011>
- Bohannon, R. W., Peolsson, A., Massy-Westropp, N., Desrosiers, J., & Bear-Lehman, J. 2006. Reference values for adult grip strength measured with a Jamar dynamometer: a descriptive meta-analysis. *Physiotherapy*, 92(1), 11–15. <https://doi.org/10.1016/j.physio.2005.05.003>
- De Andrade Fernandes, A., Natali, A. J., Vieira, B. C., Do Valle, M. A. A. N., Moreira, D. G., Massy-Westropp, N., & Marins, J. C. B. 2014. The relationship between hand grip strength and anthropometric parameters in men. *Archivos de Medicina Del Deporte*, 31(161), 160–164.
- de Lima, T. R., Silva, D. A. S., de Castro, J. A. C., & Christofaro, D. G. D. 2017. Handgrip strength and associated sociodemographic and lifestyle factors: A systematic review of the adult population. *Journal of Bodywork and Movement Therapies*, 21(2), 401–413. <https://doi.org/10.1016/j.jbmt.2016.08.017>
- Díaz Muñoz, G. A., & Calvera Millán, S. J. 2019. Comparing the Camry dynamometer to the Jamar dynamometer for use in healthy Colombian adults. *Revista Salud Bosque*, 9(2), 21–29. <https://doi.org/10.18270/rsb.v9i2.2794>
- Elliot, D., & Giesen, T. 2013. Treatment of unfavourable results of flexor tendon

- surgery: Ruptured repairs, tethered repairs and pulley incompetence. *Indian Journal of Plastic Surgery*, 46(3), 458–471. <https://doi.org/10.4103/0970-0358.121931>
- Faris Almashaqbeh, S. 2022. The Effect of Gender and Arm Anatomical Position on the Hand Grip Strength and Fatigue Resistance during Sustained Maximal Handgrip Effort. *Journal of Biomedical Physics and Engineering*, 12(02). <https://doi.org/10.31661/jbpe.v0i0.2009-1197>
- Griffin, M., Hindocha, S., Jordan, D., Saleh, M., & Khan, W. 2012. An Overview of the Management of Flexor Tendon Injuries. *The Open Orthopaedics Journal*, 6(1), 28–35. <https://doi.org/10.2174/1874325001206010028>
- Ha, Y. C., Hwang, S. C., Song, S. Y., Lee, C. H., Park, K. S., & Yoo, J. Il. 2018. Hand grip strength measurement in different epidemiologic studies using various methods for diagnosis of sarcopenia: a systematic review. *European Geriatric Medicine*, 9(3), 277–288. <https://doi.org/10.1007/s41999-018-0050-6>
- Huang, L., Liu, Y., Lin, T., Hou, L., Song, Q., Ge, N., & Yue, J. 2022. Reliability and validity of two hand dynamometers when used by community-dwelling adults aged over 50 years. *BMC Geriatrics*, 22(1), 1–8. <https://doi.org/10.1186/s12877-022-03270-6>
- Imaeda, T., An, K. N., & Cooney, W. P. 1992. Functional anatomy and biomechanics of the thumb. *Hand Clinics*, 8(1), 9–15. [https://doi.org/10.1016/s0749-0712\(21\)00688-0](https://doi.org/10.1016/s0749-0712(21)00688-0)
- Jordre, B., & Schweinle, W. 2020. Hand Grip Strength in Senior Athletes: Normative Data and Community-Dwelling Comparisons. *International Journal of Sports Physical Therapy*, 15(4), 519–525. <https://doi.org/10.26603/ijsp20200519>
- Kamarul, T., Ahmad, T. S., & Loh, W. Y. 2006. Hand grip strength in the adult Malaysian population. *Journal of Orthopaedic Surgery (Hong Kong)*, 14(2), 172–177. <https://doi.org/10.1177/230949900601400213>
- Keller, K., & Engelhardt, M. 2013. Strength and muscle mass loss with aging process. Age and strength loss. *Muscles, Ligaments and Tendons Journal*, 3(4),

346–350. <https://doi.org/10.11138/mltj/2013.3.4.346>

- Kim, Y. J., Tamadon, A., Park, H. T., Kim, H., & Ku, S.-Y. 2016. The role of sex steroid hormones in the pathophysiology and treatment of sarcopenia. *Osteoporosis and Sarcopenia*, 2(3), 140–155. <https://doi.org/10.1016/j.afos.2016.06.002>
- Landen, S., Hiam, D., Voisin, S., Jacques, M., Lamon, S., & Eynon, N. 2021. Physiological and molecular sex differences in human skeletal muscle in response to exercise training. *Journal of Physiology*, 3(November 2021), 419–434. <https://doi.org/10.1113/JP279499>
- Leong, D. P., Teo, K. K., Rangarajan, S., Kuttly, V. R., Lanas, F., Hui, C., Quanyong, X., Zhenzhen, Q., Jinhua, T., Noorhassim, I., AlHabib, K. F., Moss, S. J., Rosengren, A., Akalin, A. A., Rahman, O., Chifamba, J., Orlandini, A., Kumar, R., Yeates, K., ... Yusuf, S. 2016. Reference ranges of handgrip strength from 125,462 healthy adults in 21 countries: a prospective urban rural epidemiologic (PURE) study. *Journal of Cachexia, Sarcopenia and Muscle*, 7(5), 535–546. <https://doi.org/10.1002/jcsm.12112>
- Mahmoud, A. G., Elhadidy, E. I., Hamza, M. S., & Mohamed, N. E. 2020. Determining correlations between hand grip strength and anthropometric measurements in preschool children. *Journal of Taibah University Medical Sciences*, 15(1), 75–81. <https://doi.org/10.1016/j.jtumed.2020.01.002>
- Mani, P., Sethupathy, K., & Francis, A. K. 2019. Test-Retest Reliability of Electronic Hand Dynamometer in Healthy Adults. *International Journal of Advanced Research*, 7(5), 325–331. <https://doi.org/10.21474/ijar01/9042>
- Manoharan, V. S., Sundaram, S. G., & Jason, J. I. 2015. Factors Affecting Hand Grip Strength and Its Evaluation: a Systemic Review. *International Journal of Physiotherapy and Research*, 3(6), 1288–1293. <https://doi.org/10.16965/ijpr.2015.193>
- Nakandala, P., Manchanayake, J., Narampanawa, J., Neeraja, T., Pavithra, S., Mafahir, M., & Dissanayake, J. 2019. Descriptive Study of Hand Grip Strength and Factors Associated with it In A Group Of Young Undergraduate Students In University Of Peradeniya, Sri Lanka Who Are Not Participating In Regular

- Physical Training. *Int J Physiother.*, 6(3), 82–88.
- Nolan, H., O'Connor, J. D., Donoghue, O. A., Savva, G. M., O'Leary, N., & Kenny, R.-A. 2020. Factors Affecting Reliability of Grip Strength Measurements in Middle Aged and Older Adults. *HRB Open Research*, 3, 32. <https://doi.org/10.12688/hrbopenres.13064.1>
- Ombregt, L. 2013. Applied anatomy of the wrist, thumb and hand. *A System of Orthopaedic Medicine*, e102–e111. <https://doi.org/10.1016/b978-0-7020-3145-8.00072-7>
- Pacleta, F., Ambikea, S., Zatsiorskya, V. M., & Latash, M. L. 2014. Enslaving in a serial chain: Interactions between grip force and hand force in isometric tasks. *Exp Brain Res*, 232(3), 775–787. <https://doi.org/10.1007/s00221-013-3787-7>.Enslaving
- Pavlović, R., & Vrcić, M. 2021. Hand Grip Strength in Students: Differences in the Gender Dimorphism. *International Journal of Physical Education, Fitness and Sports*, 10(4), 13–21. <https://doi.org/10.34256/ijpefs2143>
- Peters, S. E., Jha, B., & Ross, M. 2017. Rehabilitation following surgery for flexor tendon injuries of the hand. *Cochrane Database of Systematic Reviews*, 2017(1). <https://doi.org/10.1002/14651858.CD012479>
- Ramírez-Vélez, R., Correa-Bautista, J. E., García-Hermoso, A., Cano, C. A., & Izquierdo, M. 2019. Reference values for handgrip strength and their association with intrinsic capacity domains among older adults. *Journal of Cachexia, Sarcopenia and Muscle*, 10(2), 278–286. <https://doi.org/10.1002/jcsm.12373>
- Roberts, H. C., Denison, H. J., Martin, H. J., Patel, H. P., Syddall, H., Cooper, C., & Sayer, A. A. 2011. A review of the measurement of grip strength in clinical and epidemiological studies: Towards a standardised approach. *Age and Ageing*, 40(4), 423–429. <https://doi.org/10.1093/ageing/afr051>
- Saphira, R. R., Widyastuti, N., & Fitranti, D. Y. 2020. Relationship between body type (Somatotype) and bone density in perimenopause women. *Food Research*, 4(2006), 54–62. [https://doi.org/10.26656/fr.2017.4\(S3\).S14](https://doi.org/10.26656/fr.2017.4(S3).S14)
- Saraiva, B. T. C., Agostinete, R. R., Freitas Júnior, I. F., de Sousa, D. E. R., Gobbo,

- L. A., Tebar, W. R., & Christofaro, D. G. D. 2021. Association between handgrip strength and bone mineral density of Brazilian children and adolescents stratified by sex: a cross-sectional study. *BMC Pediatrics*, 21(1), 1–7. <https://doi.org/10.1186/s12887-021-02669-1>
- Schuenke, M., Schulte, E., & Schumacher, U. 2014. Structure and Function of the Palm. In *THIEME Atlas of Anatomy, General Anatomy and Musculoskeletal System* (pp. 60–65). Thieme.
- Scollard, T. M. 2012. Handgrip Strength Assessment: A Skill to Enhance Diagnosis of Disease-related Malnutrition ASHT Grip Strength Methodology. *Support Line*, 39(2), 7–13.
- Shah, S. A., Safian, N., Mohammad, Z., Nurumal, S. R., Ibadullah, W. A. H. W., Mansor, J., Ahmad, S., Hassan, M. R., & Shobugawa, Y. 2022. Factors Associated with Handgrip Strength Among Older Adults in Malaysia. *Journal of Multidisciplinary Healthcare*, 15(May), 1023–1034. <https://doi.org/10.2147/JMDH.S363421>
- Singh, K., & Kumar, N. 2019. Comparison of Handgrip Strength between Right-Handed and Left-Handed Badminton Players. *International Journal of Health Sciences & Research (Www.Ijhsr.Org)*, 9(8), 175. [www.ijhsr.org](http://www.ijhsr.org)
- Sternäng, O., Reynolds, C. A., Finkel, D., Ernsth-bravell, M., Pedersen, N. L., & Dahl aslan, A. K. 2015. Factors associated with grip strength decline in older adults. *Age and Ageing*, 44(2), 269–274. <https://doi.org/10.1093/ageing/afu170>
- Tanrikulu, S., Bekmez, Ş., Üzumcugil, A., & Leblebicioğlu, G. 2015. Biomechanics of the wrist and hand. In *Orthopaedic Biomechanics* (pp. 441–447). Springer Berlin Heidelberg. <https://doi.org/10.1201/b13733>
- Vargas-Pinilla, O. C., & Rodríguez-Grande, E. I. 2021. Reproducibility and agreement between three positions for handgrip assessment. *Scientific Reports*, 11(1), 1–6. <https://doi.org/10.1038/s41598-021-92296-8>
- Volpi, E., Nazemi, R., & Fujita, S. 2004. Muscle tissue changes with aging. *Current Opinion in Clinical Nutrition and Metabolic Care*, 7(4), 405–410. <https://doi.org/10.1097/01.mco.0000134362.76653.b2>



UNIVERSITAS  
GADJAH MADA

**Penilaian Kekuatan Genggaman Tangan Pada Orang Dewasa di Yogyakarta**

Ardicho Irfantian, dr. Meirizal, Sp.OT(K); dr. Hilmi Muhammad, Sp.OT(K)

Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Zhou, M., Zha, F., Chen, Y., Liu, F., Zhou, J., Long, J., Luo, W., Huang, M., Zhang, S., Luo, D., Li, W., & Wang, Y. 2021. Handgrip Strength-Related Factors Affecting Health Outcomes in Young Adults: Association with Cardiorespiratory Fitness. *BioMed Research International*, 2021(Cvd), 1–10. <https://doi.org/10.1155/2021/6645252>