

DAFTAR PUSTAKA

- Ahn, H., Choi, H. Y., & Ki, M. (2019). *Association between levels of physical activity and low handgrip strength: Korea National Health and Nutrition Examination Survey 2014-2019.* 1–8.
- Alfaro, P. G., Garcia, S., Rodríguez, I., Tresserra, F., & Pérez-López, F. R. (2019). Factors related to muscle strength in postmenopausal women aged younger than 65 years with normal vitamin D status. *Climacteric*, 22(4), 390–394. <https://doi.org/10.1080/13697137.2018.1554645>
- Almashaqbeh, S. F., Al-Momani, S., Khader, A., Qananwah, Q., Marabeh, S., Maabreh, R., Al Badarneh, A. A. B., & Abdullah, K. (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(2), 171–180. <https://doi.org/10.31661/jbpe.v0i0.2009-1197>
- Amanah, S. R., & Citrawati, M. (2020). Association Between Physical Activity, Sleep Quality and Handgrip Strength in Medical Student. *ACTIVE: Journal of Physical Education, Sport, Health and Recreation*, 9(2), 72–77. <https://doi.org/10.15294/active.v9i1.37172>
- Bae, E. J., Park, N. J., Sohn, H. S., & Kim, Y. H. (2019). Handgrip strength and all-cause mortality in middle-aged and older Koreans. *International Journal of Environmental Research and Public Health*, 16(5). <https://doi.org/10.3390/ijerph16050740>
- Buchmann, N., Fielitz, J., Spira, D., König, M., Norman, K., Pawelec, G., Goldeck, D., Demuth, I., & Steinhagen-Thiessen, E. (2022). Muscle Mass and Inflammation in Older Adults: Impact of the Metabolic Syndrome. *Gerontology*, 989–998. <https://doi.org/10.1159/000520096>
- Buckinx, F., Landi, F., Cesari, M., Fielding, R. A., Visser, M., Engelke, K., Maggi, S., Dennison, E., Al-Daghri, N. M., Allepaerts, S., Bauer, J., Bautmans, I., Brandi, M. L., Bruyère, O., Cederholm, T., Cerreta, F., Cherubini, A., Cooper, C., Cruz-Jentoft, A., ... Kanis, J. A. (2018). Pitfalls in the measurement of muscle mass: a need for a reference standard. *Journal of Cachexia, Sarcopenia and Muscle*, 9(2), 269–278. <https://doi.org/10.1002/jcsm.12268>
- Campos, R. G., Vidal Espinoza, R., de Arruda, M., Ronque, E. R. V., Urra-Albornoz, C., Minango, J. C., Alvear-Vasquez, F., de la Torre Choque, C., Castelli Correia de Campos, L. F., Sulla Torres, J., & Cossio-Bolaños, M. (2023). Relationship between age and handgrip strength: Proposal of reference values from infancy to senescence. *Frontiers in Public Health*, 10. <https://doi.org/10.3389/fpubh.2022.1072684>
- Ciardullo, S., Zerbini, F., Cannistraci, R., Muraca, E., Perra, S., Oltolini, A., & Perseghin, G. (2023). Differential Association of Sex Hormones with Metabolic Parameters and Body Composition in Men and Women from the United States. *Journal of Clinical Medicine*, 12(14).

<https://doi.org/10.3390/jcm12144783>

- Coeffier, M., Gâté, M., Rimbert, A., Petit, A., Folope, V., Grigioni, S., Déchelotte, P., & Achamrah, N. (2020). Validity of bioimpedance equations to evaluate fat-free mass and muscle mass in severely malnourished anorectic patients. *Journal of Clinical Medicine*, 9(11), 1–10. <https://doi.org/10.3390/jcm9113664>
- Fifolato, T. M., Nardim, H. C. B., do Carmo Lopes, E. R., Suzuki, K. A. K., da Silva, N. C., de Souza Serenza, F., & Fonseca, M. C. R. (2021). Association between muscle strength, upper extremity fatigue resistance, work ability and upper extremity dysfunction in a sample of workers at a tertiary hospital. *BMC Musculoskeletal Disorders*, 22(1), 1–11. <https://doi.org/10.1186/s12891-021-04256-y>
- Hall, J. E., Hall, M. E., & Guyton, A. C. (2019). Physiology Medical - Dr Guyton. *Guyton and Hall Textbook of Medical Physiology*, 1, 993–997.
- Han, F., Hu, F., Wang, T., Zhou, W., Zhu, L., Huang, X., Bao, H., & Cheng, X. (2022). Association Between Basal Metabolic Rate and All-Cause Mortality in a Prospective Cohort of Southern Chinese Adults. *Frontiers in Physiology*, 12(January), 1–11. <https://doi.org/10.3389/fphys.2021.790347>
- Hargreaves, M., & Spriet, L. L. (2020). Skeletal muscle energy metabolism during exercise. *Nature Metabolism*, 2(9), 817–828. <https://doi.org/10.1038/s42255-020-0251-4>
- Helder, J. Van den, Verreijen, A. M., van Dronkelaar, C., Memelink, R. G., Engberink, M. F., Engelbert, R. H. H., Weijns, P. J. M., & Tieland, M. (2022). Bio-Electrical Impedance Analysis: A Valid Assessment Tool for Diagnosis of Low Appendicular Lean Mass in Older Adults? *Frontiers in Nutrition*, 9(June), 1–9. <https://doi.org/10.3389/fnut.2022.874980>
- Henriksson, P., Cadenas-Sanchez, C., Leppänen, M. H., Nyström, C. D., Ortega, F. B., Pomeroy, J., Ruiz, J. R., & Löf, M. (2016). Associations of fat mass and fat-free mass with physical fitness in 4-year-old children: Results from the MINISTOP trial. *Nutrients*, 8(8), 1–11. <https://doi.org/10.3390/nu8080473>
- Holmes, C. J., & Racette, S. B. (2021). The utility of body composition assessment in nutrition and clinical practice: an overview of current methodology. *Nutrients*, 13(8), 1–16. <https://doi.org/10.3390/nu13082493>
- Huang, G., & Wu, L. (2020). Handgrip Strength References for Middle-Age and Older Chinese Individuals. *Journal of the American Medical Directors Association*, 21(2), 286–287. <https://doi.org/10.1016/j.jamda.2019.08.034>
- Huang, 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), 1–9. <https://doi.org/10.1186/s12877-022-03270-6>
- Jaramillo, P. L., Lopez-Lopez, J. P., Tole, M. C., & Cohen, D. D. (2022). Muscular Strength in Risk Factors for Cardiovascular Disease and Mortality: A Narrative Review. *Anatolian Journal of Cardiology*, 26(8), 598–607.

<https://doi.org/10.5152/AnatolJCardiol.2022.1586>

- Jeong, S. M., Choi, S., Kim, K., Kim, S. M., Kim, S., & Park, S. M. (2018). Association among handgrip strength, body mass index and decline in cognitive function among the elderly women. *BMC Geriatrics*, 18(1), 1–9. <https://doi.org/10.1186/s12877-018-0918-9>
- Kang, H. W., Seo, S. P., Lee, H. Y., Kim, K., Ha, Y. S., Kim, W. T., Kim, Y. J., Yun, S. J., Kim, W. J., & Lee, S. C. (2021). A high basal metabolic rate is an independent predictor of stone recurrence in obese patients. *Investigative and Clinical Urology*, 62(2), 195–200. <https://doi.org/10.4111/icu.20200438>
- Kasović, M., Štefan, L., Neljak, B., Petrić, V., & Knjaz, D. (2021). Reference data for fat mass and fat-free mass measured by bioelectrical impedance in croatian youth. *International Journal of Environmental Research and Public Health*, 18(16). <https://doi.org/10.3390/ijerph18168501>
- Kristiana, T., Widajanti, N., & Satyawati, R. (2020). Association between Muscle Mass and Muscle Strength with Physical Performance in Elderly in Surabaya. *Surabaya Physical Medicine and Rehabilitation Journal*, 2(1), 24. <https://doi.org/10.20473/spmrj.v2i1.2020.24-34>
- Lee, S. Y. (2021). Handgrip Strength: An Irreplaceable Indicator of Muscle Function. *Annals of Rehabilitation Medicine*, 45(3), 167–169. <https://doi.org/10.5535/ARM.21106>
- Li, Q., & Spalding, K. L. (2022). The regulation of adipocyte growth in white adipose tissue. *Frontiers in Cell and Developmental Biology*, 10(November), 1–13. <https://doi.org/10.3389/fcell.2022.1003219>
- Maghbooli, Z., Mozaffari, S., Dehghani, Y., Rezaei Amirkiasar, P., Malekhosseini, A. A., Rezanejad, M., & Holick, M. F. (2022). The lower basal metabolic rate is associated with increased risk of osteosarcopenia in postmenopausal women. *BMC Women's Health*, 22(1), 4–11. <https://doi.org/10.1186/s12905-022-01754-6>
- Martins, P. C., Souza Alves Junior, C. A., Augustemak de Lima, L. R., Petroski, E. L., & Santos Silva, D. A. (2022). Muscle mass indicators as fat-free mass and lean soft tissue mass are associated with handgrip strength in HIV-diagnosed children and adolescents. *Journal of Bodywork and Movement Therapies*, 30, 76–81. <https://doi.org/10.1016/J.JBMT.2022.02.006>
- Matsuura, Y., Atsumi, H., Kane, E., Yano, M., Akamine, K., Murakami, A., Wada, T., & Yasui, T. (2020). Relationships of Handgrip Strength with Menstruation-Related Symptoms in Female University Students in Japan. *Open Journal of Obstetrics and Gynecology*, 10(08), 1056–1066. <https://doi.org/10.4236/ojog.2020.1080099>
- McNab, B. K. (2019). What determines the basal rate of metabolism? *Journal of Experimental Biology*, 222(15), 1–7. <https://doi.org/10.1242/jeb.205591>
- Mendelson, T. (2020). Stress, Emotional. In *Encyclopedia of Behavioral Medicine*. https://doi.org/10.1007/978-3-030-39903-0_289
- Morlino, D., Marra, M., Cioffi, I., Sammarco, R., Speranza, E., Di Vincenzo, O.,

- De Caprio, C., De Filippo, E., & Pasanisi, F. (2021). A proposal for reference values of hand grip strength in women with different body mass indexes. *Nutrition*, 87–88, 7–10. <https://doi.org/10.1016/j.nut.2021.111199>
- Munawaroh, M. M. (2021). Komposisi Lemak Viseral, Basal Metabolic Rate (BMR), Dan Usia Sel Terhadap Indeks Masa Tubuh (IMT) Pada Remaja. *Jurnal Untuk Masyarakat Sehat (JUKMAS)*, 5(1), 110–119. <https://doi.org/10.52643/jukmas.v5i1.1120>
- Nonaka, K., Murata, S., Shiraiwa, K., Abiko, T., Nakano, H., Iwase, H., Naito, K., & Horie, J. (2018). Effect of skeletal muscle and fat mass on muscle strength in the elderly. *Healthcare (Switzerland)*, 6(3), 1–6. <https://doi.org/10.3390/healthcare6030072>
- Nunes, J. P., Cunha, P. M., Antunes, M., Costa, B. D. V., Kassiano, W., Kunevaliki, G., Ribeiro, A. S., & Cyrino, E. S. (2020). The Generality of Strength: Relationship between Different Measures of Muscular Strength in Older Women. *International Journal of Exercise Science*, 13(3), 1638–1649. <http://www.ncbi.nlm.nih.gov/pubmed/33414871%0Ahttp://www.ncbi.nlm.nih.gov/article/fcgi?artid=PMC7745912>
- Oh, S. K., Son, D. H., Kwon, Y. J., Lee, H. S., & Lee, J. W. (2019). Association between basal metabolic rate and handgrip strength in older koreans. *International Journal of Environmental Research and Public Health*, 16(22), 1–12. <https://doi.org/10.3390/ijerph16224377>
- Pasdar, Y., Darbandi, M., Mirtaher, E., Rezaeian, S., Najafi, F., & Hamzeh, B. (2019). Associations between Muscle Strength with Different Measures of Obesity and Lipid Profiles in Men and Women: Results from RaNCD Cohort Study. *Clinical Nutrition Research*, 8(2), 148. <https://doi.org/10.7762/cnr.2019.8.2.148>
- Pasha Erik Juantara. (2019). Latihan Kekuatan Dengan Beban Bebasmetodecircuittraining dan Plyometric. *Latihan Kekuatan Dengan Beban Bebasmetodecircuittraining dan Plyometric*, 8(2), 1–14. <https://ejournal.unsri.ac.id/index.php/altius/article/download/8705/4965>
- Patnaik, M., Acharya, S., Kumar, K., & Mishra, S. (2021). Correlation of body fat percentage, fat mass, fat free mass, and fat free mass index with hand grip strength in healthy young males in a tertiary health care center of South Odisha. *National Journal of Physiology, Pharmacy and Pharmacology*, 12(0), 1. <https://doi.org/10.5455/njppp.2022.12.12442202120122021>
- Ponti, F., Santoro, A., Mercatelli, D., Gasperini, C., Conte, M., Martucci, M., Sangiorgi, L., Franceschi, C., & Bazzocchi, A. (2020). Aging and Imaging Assessment of Body Composition: From Fat to Facts. *Frontiers in Endocrinology*, 10. <https://doi.org/10.3389/fendo.2019.00861>
- Popov, L. D. (2020). Mitochondrial biogenesis: An update. *Journal of Cellular and Molecular Medicine*, 24(9), 4892–4899. <https://doi.org/10.1111/jcmm.15194>
- Reggiani, C., & Schiaffino, S. (2020). Muscle hypertrophy and muscle strength: Dependent or independent variables? a provocative review. *European Journal of Translational Myology*, 30(3). <https://doi.org/10.4081/ejtm.2020.9311>

- Rostron, Z. P., Green, R. A., Kingsley, M., & Zacharias, A. (2021). Associations Between Measures of Physical Activity and Muscle Size and Strength: A Systematic Review. *Archives of Rehabilitation Research and Clinical Translation*, 3(2), 100124. <https://doi.org/10.1016/J.ARRCT.2021.100124>
- Sapti, A. (2018). Perkembangan Usia Mempengaruhi Kekuatan Otot Punggung Pada Orang Dewasa Usia 40-60 Tahun. *Gaster*, 16(1), 1. <https://doi.org/10.30787/gaster.v16i1.237>
- 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>
- Shaughnessy, K. A., Hackney, K. J., Clark, B. C., Kraemer, W. J., Terbizzan, D. J., Bailey, R. R., & McGrath, R. (2018). A Narrative Review of Handgrip Strength and Cognitive Functioning: Bringing a New Characteristic to Muscle Memory. *Physiology & Behavior*, 176(1), 100–106. <https://doi.org/10.3233/JAD-190856.A>
- Sherwood, L. (2016). *Human Physiologi : From Cells to System* (9th ed.). Cengage Learning.
- Silva, G. S. da, de Almeida Lourenço, M., & de Assis, M. R. (2018). Hand strength in patients with RA correlates strongly with function but not with activity of disease. *Advances in Rheumatology (London, England)*, 58(1), 20. <https://doi.org/10.1186/s42358-018-0020-1>
- Steiner, B. M., & Berry, D. C. (2022). The Regulation of Adipose Tissue Health by Estrogens. *Frontiers in Endocrinology*, 13(May), 1–20. <https://doi.org/10.3389/fendo.2022.889923>
- Syah, S. A., Safian, N., Mohammad, Z., Nurumal, S. R., Abdul, W., Wan, H., Mansor, J., Ahmad, S., & Hassan, M. R. (2022). *Faktor yang Berhubungan dengan Kekuatan Genggaman Di antara Orang Dewasa Tua di Malaysia*. April.
- Szurlej, A. W., Ćwirlej-Sozańska, A., Kilian, J., Wołoszyn, N., Sozański, B., & Wilmowska-Pietruszyńska, A. (2021). Reference values and factors associated with hand grip strength among older adults living in southeastern Poland. *Scientific Reports*, 11(1), 1–7. <https://doi.org/10.1038/s41598-021-89408-9>
- Tanita. (2020). *Body Composition Guide for InnerScan*. <https://tanita.asia/upload/manual/5/download/5914678439f19.pdf>
- Tortora, G. J., & Derrickson, B. (2017). *Principles of Anatomy & Physiology* (Fifteenth). John Wiley & Sons.
- Verma, N., Kumar, S. S., & Suresh, A. (2023). An evaluation of basal metabolic rate among healthy individuals — a cross-sectional study. *Bulletin of Faculty of Physical Therapy*, 28(1), 4–9. <https://doi.org/10.1186/s43161-023-00139-6>
- Westerterp, K. R., Yamada, Y., Sagayama, H., Ainslie, P. N., Andersen, L. F., Anderson, L. J., Arab, L., Baddou, I., Bedu-Addo, K., Blaak, E. E., Blanc, S.,

- Bonomi, A. G., Bouten, C. V. C., Bovet, P., Buchowski, M. S., Butte, N. F., Camps, S. G. J. A., Close, G. L., Cooper, J. A., ... Jorgensen, H. U. (2021). Physical activity and fat-free mass during growth and in later life. *American Journal of Clinical Nutrition*, 114(5), 1583–1589. <https://doi.org/10.1093/ajcn/nqab260>
- Yonathan, K. (2020). Penggunaan Termometer Timpani dalam Diagnosis Demam pada Anak : Laporan Kasus Berbasis Bukti. *Fakultas Kedokteran Universitas Indonesia, May*.
- Yuliasih, & Nurdin, F. (2020). Analisis Body Composition Masyarakat Desa Karang Tengah Kabupaten Bogor. *Jurnal Segar*, 9(1), 14–20. <https://doi.org/10.21009/segar/0901.02>
- Zaccagni, L., Toselli, S., Bramanti, B., Gualdi-Russo, E., Mongillo, J., & Rinaldo, N. (2020). Handgrip strength in young adults: Association with anthropometric variables and laterality. *International Journal of Environmental Research and Public Health*, 17(12), 1–12. <https://doi.org/10.3390/ijerph17124273>
- Zaharia, O. P., Pesta, D. H., Bobrov, P., Kupriyanova, Y., Herder, C., Karusheva, Y., Bódis, K., Bönhof, G. J., Knitza, J., Simon, D., Kleyer, A., Hwang, J. H., Müssig, K., Ziegler, D., Burkart, V., Schett, G., Roden, M., & Szendroedi, J. (2021). Reduced Muscle Strength Is Associated with Insulin Resistance in Type 2 Diabetes Patients with Osteoarthritis. *Journal of Clinical Endocrinology and Metabolism*, 106(4), 1062–1073. <https://doi.org/10.1210/clinem/dgaa912>
- Zou, H., Liu, L., & Li, Y. H. (2017). Relationship between human body anthropometric measurements and basal metabolic rate. *Textile Bioengineering and Informatics Symposium Proceedings 2017 - 10th Textile Bioengineering and Informatics Symposium, TBIS 2017*, 805–814. <https://doi.org/10.5772/intechopen.79025>
- Zulkairul Naim, S. A., Khairul Anwar, Z., Abdul Rahman, R., & Nur Zuliani, R. (2016). Physical Inactivity Among Medical and Non-. *International Journal of Public Health and Clinical Sciences*, 3(5), 48–58.