

DAFTAR PUSTAKA

- Abramowitz, M. K., Hall, C. B., Amodu, A., Sharma, D., Androga, L., & Hawkins, M. (2018). Muscle mass, BMI, and mortality among adults in the United States: A population-based cohort study. *PLOS ONE*, *13*(4), e0194697. <https://doi.org/10.1371/journal.pone.0194697>
- Ahmed, B., Rahman, A. A., Lee, S., & Malhotra, R. (2024). The Implications of Aging on Vascular Health. *International Journal of Molecular Sciences*, *25*(20), 11188. <https://doi.org/10.3390/ijms252011188>
- Alim, I. Z. (2015). Fakultas Kedokteran Universitas Indonesia Program Pendidikan Dokter Spesialis Program Studi Ilmu Kesehatan Jiwa Jakarta Februari 2015.
- Alves, S. F. L., Santos, T. A. B. P. D. S., Da Silva, M. L., & Cunha, K. D. C. (2025). Heart rate variability, sleep quality and physical activity in medical students. *Sleep Epidemiology*, *5*, 100105. <https://doi.org/10.1016/j.sleepe.2024.100105>
- Amin, K. D., Thakkar, A., Budampati, T., Matai, S., Akkaya, E., & Shah, N. P. (2025). A good night's rest: A contemporary review of sleep and cardiovascular health. *American Journal of Preventive Cardiology*, *21*, 100924. <https://doi.org/10.1016/j.ajpc.2024.100924>
- Badhwar, S., Marais, L., Khettab, H., Poli, F., Li, Y., Segers, P., Aasmul, S., De Melis, M., Baets, R., Greenwald, S., Bruno, R. M., & Boutouyrie, P. (2024). Clinical Validation of Carotid-Femoral Pulse Wave Velocity Measurement Using a Multi-Beam Laser Vibrometer: The CARDIS Study. *Hypertension*, *81*(9), 1986–1995. <https://doi.org/10.1161/hypertensionaha.124.22729>
- Badran, A., Nasser, S. A., Mesmar, J., El-Yazbi, A. F., Bitto, A., Fardoun, M. M., Baydoun, E., & Eid, A. H. (2020). Reactive Oxygen Species: Modulators of Phenotypic Switch of Vascular Smooth Muscle Cells. *International Journal of Molecular Sciences*, *21*(22), 8764. <https://doi.org/10.3390/ijms21228764>
- Binjabr, M. A., Alalawi, I. S., Alzahrani, R. A., Albalawi, O. S., Hamzah, R. H., Ibrahim, Y. S., Buali, F., Husni, M., BaHammam, A. S., Vitiello, M. V., & Jahrami, H. (2023). The Worldwide Prevalence of Sleep Problems Among Medical Students by Problem, Country, and COVID-19

- Status: A Systematic Review, Meta-analysis, and Meta-regression of 109 Studies Involving 59427 Participants. *Current Sleep Medicine Reports*, 9(3), 161–179. <https://doi.org/10.1007/s40675-023-00258-5>
- Br Ginting, S. S., Astiarani, Y., Santi, B. T., & Vetinly, V. (2022). Tingkat Pengetahuan Efek Konsumsi Kafein Dan Asupan Kafein Pada Mahasiswa. *Journal Of Nutrition College*, 11(4), 264–271. <https://doi.org/10.14710/jnc.v11i4.32930>
- Bruno, R. M., Nilsson, P. M., Engström, G., Wadström, B. N., Empana, J.-P., Boutouyrie, P., & Laurent, S. (2020). Early and Supernormal Vascular Aging: Clinical Characteristics and Association With Incident Cardiovascular Events. *Hypertension*, 76(5), 1616–1624. <https://doi.org/10.1161/HYPERTENSIONAHA.120.14971>
- Castelli, R., Gidaro, A., Casu, G., Merella, P., Profili, N. I., Donadoni, M., Maioli, M., & Delitala, A. P. (2023). Aging of the Arterial System. *International Journal of Molecular Sciences*, 24(8), 6910. <https://doi.org/10.3390/ijms24086910>
- Cendekia, A. A. (2024). Hubungan Screen Time Terhadap Tingkat Stres Pada Mahasiswa Keperawatan Di Jabodetabek. Jakarta. 2014
- Chen, R., McVey, D. G., Shen, D., Huang, X., & Ye, S. (2023). Phenotypic Switching of Vascular Smooth Muscle Cells in Atherosclerosis. *Journal of the American Heart Association*, 12(20), e031121. <https://doi.org/10.1161/JAHA.123.031121>
- Choi, S. W., Kim, Y. W., Lee, C. Y., Jang, H. S., Chae, H. S., Choi, J. H., & Ko, Y. H. (2024). Caffeine consumption of medical students in Korea: Amount and symptoms based on a 2023 survey. *Korean Journal of Medical Education*, 36(3), 267–274. <https://doi.org/10.3946/kjme.2024.301>
- Choi, Y., Akazawa, N., Zempo-Miyaki, A., Ra, S.-G., & Maeda, S. (2021). Sleep Quality is associated with Central Arterial Stiffness in Postmenopausal Women: A Cross-sectional Pilot Study. *Artery Research*, 27(1), 14–19. <https://doi.org/10.2991/artres.k.201004.001>
- Chokroverty, S. (2017). Physiological Changes of Sleep. In S. Chokroverty (Ed.), *Sleep Disorders Medicine* (pp. 153–194). Springer New York. https://doi.org/10.1007/978-1-4939-6578-6_11

- Christodoulou, N., Maruani, J., d'Ortho, M.-P., Lejoyeux, M., & Geoffroy, P. A. (2023). Sleep quality of medical students and relationships with academic performances. *L'Encéphale*, *49*(1), 9–14. <https://doi.org/10.1016/j.encep.2021.09.006>
- Cicero, A. F. G., Fogacci, F., Desideri, G., Grandi, E., Rizzoli, E., D'Addato, S., & Borghi, C. (2019). Arterial Stiffness, Sugar-Sweetened Beverages and Fruits Intake in a Rural Population Sample: Data from the Brisighella Heart Study. *Nutrients*, *11*(11), 2674. <https://doi.org/10.3390/nu11112674>
- Clayton, Z. S., Brunt, V. E., Hutton, D. A., Casso, A. G., Ziemba, B. P., Melov, S., Campisi, J., & Seals, D. R. (2021). Tumor Necrosis Factor Alpha-Mediated Inflammation and Remodeling of the Extracellular Matrix Underlies Aortic Stiffening Induced by the Common Chemotherapeutic Agent Doxorubicin. *Hypertension*, *77*(5), 1581–1590. <https://doi.org/10.1161/HYPERTENSIONAHA.120.16759>
- Cleland, C. L., Hunter, R. F., Kee, F., Cupples, M. E., Sallis, J. F., & Tully, M. A. (2014). Validity of the Global Physical Activity Questionnaire (GPAQ) in assessing levels and change in moderate-vigorous physical activity and sedentary behaviour. *BMC Public Health*, *14*(1), 1255. <https://doi.org/10.1186/1471-2458-14-1255>
- Cocciolone, A. J., Hawes, J. Z., Staiculescu, M. C., Johnson, E. O., Murshed, M., & Wagenseil, J. E. (2018). Elastin, arterial mechanics, and cardiovascular disease. *American Journal of Physiology-Heart and Circulatory Physiology*, *315*(2), H189–H205. <https://doi.org/10.1152/ajpheart.00087.2018>
- Coronado, F., Melvin, S. C., Bell, R. A., & Zhao, G. (2022). Global Responses to Prevent, Manage, and Control Cardiovascular Diseases. *Preventing Chronic Disease*, *19*, 220347. <https://doi.org/10.5888/pcd19.220347>
- Corrêa, C. D. C., Oliveira, F. K. D., Pizzamiglio, D. S., Ortolan, E. V. P., & Weber, S. A. T. (2017). Sleep quality in medical students: A comparison across the various phases of the medical course. *Jornal Brasileiro de Pneumologia*, *43*(4), 285–289. <https://doi.org/10.1590/s1806->

37562016000000178

- Costanzo, L. S. (2018). *Physiology* (Sixth edition). Elsevier.
- De Ridder, D., Kroese, F., Evers, C., Adriaanse, M., & Gillebaart, M. (2017). Healthy diet: Health impact, prevalence, correlates, and interventions. *Psychology & Health, 32*(8), 907–941. <https://doi.org/10.1080/08870446.2017.1316849>
- Del Brutto, O. H., Mera, R. M., Peñaherrera, E., Costa, A. F., Peñaherrera, R., & Castillo, P. R. (2019). On the Association Between Sleep Quality and Arterial Stiffness: A Population Study in Community-Dwelling Older Adults Living in Rural Ecuador (The Atahualpa Project). *Journal of Clinical Sleep Medicine, 15*(08), 1101–1106. <https://doi.org/10.5664/jcsm.7798>
- Del Giorno, R., Scanzio, S., De Napoli, E., Stefanelli, K., Gabutti, S., Troiani, C., & Gabutti, L. (2022a). Habitual coffee and caffeinated beverages consumption is inversely associated with arterial stiffness and central and peripheral blood pressure. *International Journal of Food Sciences and Nutrition, 73*(1), 106–115. <https://doi.org/10.1080/09637486.2021.1926935>
- Del Giorno, R., Scanzio, S., De Napoli, E., Stefanelli, K., Gabutti, S., Troiani, C., & Gabutti, L. (2022b). Habitual coffee and caffeinated beverages consumption is inversely associated with arterial stiffness and central and peripheral blood pressure. *International Journal of Food Sciences and Nutrition, 73*(1), 106–115. <https://doi.org/10.1080/09637486.2021.1926935>
- Domaszewski, P., Pakosz, P., Konieczny, M., Bączkiewicz, D., & Sadowska-Krępa, E. (2021). Caffeine-Induced Effects on Human Skeletal Muscle Contraction Time and Maximal Displacement Measured by Tensiomyography. *Nutrients, 13*(3), 815. <https://doi.org/10.3390/nu13030815>
- DuPont, J. J., Kenney, R. M., Patel, A. R., & Jaffe, I. Z. (2019). Sex differences in mechanisms of arterial stiffness. *British Journal of Pharmacology, 176*(21), 4208–4225. <https://doi.org/10.1111/bph.14624>
- Echeverri, D., Pizano, A., Montes, F. R., & Forcada, P. (2017). Acute effect of coffee consumption on arterial stiffness, evaluated using an oscillometric method. *Artery Research, 17*(C), 16. <https://doi.org/10.1016/j.artres.2017.01.001>

- Emek, S., Bora, Ş., Evren, V., & Çakırlar, İ. (2021). Behavioural Representation of the Aorta by Utilizing Windkessel and Agent-Based Modelling. *Informatica*, 499–516. <https://doi.org/10.15388/21-INFOR456>
- Fabbri, M., Beracci, A., Martoni, M., Meneo, D., Tonetti, L., & Natale, V. (2021). Measuring Subjective Sleep Quality: A Review. *International Journal of Environmental Research and Public Health*, 18(3), 1082. <https://doi.org/10.3390/ijerph18031082>
- Fiani, B., Zhu, L., Musch, B. L., Briceno, S., Andel, R., Sadeq, N., & Ansari, A. Z. (2021). The Neurophysiology of Caffeine as a Central Nervous System Stimulant and the Resultant Effects on Cognitive Function. *Cureus*. <https://doi.org/10.7759/cureus.15032>
- Ghamari, M. (2018). A review on wearable photoplethysmography sensors and their potential future applications in health care. *International Journal of Biosensors & Bioelectronics*, 4(4). <https://doi.org/10.15406/ijbsbe.2018.04.00125>
- Grandner, M. A. (2017). Sleep, Health, and Society. *Sleep Medicine Clinics*, 12(1), 1–22. <https://doi.org/10.1016/j.jsmc.2016.10.012>
- Guimaraes, D. A., Batista, R. I. M., & Tanus-Santos, J. E. (2021). Nitrate and nitrite-based therapy to attenuate cardiovascular remodelling in arterial hypertension. *Basic & Clinical Pharmacology & Toxicology*, 128(1), 9–17. <https://doi.org/10.1111/bcpt.13474>
- Hahad, O., Schmitt, V. H., Arnold, N., Keller, K., Prochaska, J. H., Wild, P. S., Schulz, A., Lackner, K. J., Pfeiffer, N., Schmidtman, I., Michal, M., Schattenberg, J. M., Tüscher, O., Daiber, A., & Münzel, T. (2023). Chronic cigarette smoking is associated with increased arterial stiffness in men and women: Evidence from a large population-based cohort. *Clinical Research in Cardiology*, 112(2), 270–284. <https://doi.org/10.1007/s00392-022-02092-1>
- Hall, J. E., Hall, M. E., & Guyton, A. C. (2021). *Guyton and Hall textbook of medical physiology* (14th edition). Elsevier.
- Higgins, S., Zemel, B. S., Khoury, P. R., Urbina, E. M., & Kindler, J. M. (2022). Visceral fat and arterial stiffness in youth with healthy weight, obesity, and type 2 diabetes. *Pediatric Obesity*, 17(4),

e12865. <https://doi.org/10.1111/ijpo.12865>

- Hirokawa, K., Fujii, Y., Taniguchi, T., & Tsujishita, M. (2022). Associations of testosterone and cortisol concentrations with sleep quality in Japanese male workers. *Comprehensive Psychoneuroendocrinology*, *12*, 100158. <https://doi.org/10.1016/j.cpnec.2022.100158>
- Hu, H., Li, H., Huang, X., Bao, H., Song, Y., Wang, B., Liu, C., Xu, R., Liu, L., Wang, X., Huo, Y., Xu, X., Cheng, X., Qin, X., & Li, P. (2020). Association of self-reported sleep duration and quality with BaPWV levels in hypertensive patients. *Hypertension Research*, *43*(12), 1392–1402. <https://doi.org/10.1038/s41440-020-0509-y>
- Irons, J. G., Bassett, D. T., Prendergast, C. O., Landrum, R. E., & Heinz, A. J. (2016). Development and Initial Validation of the Caffeine Consumption Questionnaire-Revised. *Journal of Caffeine Research*, *6*(1), 20–25. <https://doi.org/10.1089/jcr.2015.0012>
- Irwin, M. R. (2023). Sleep disruption induces activation of inflammation and heightens risk for infectious disease: Role of impairments in thermoregulation and elevated ambient temperature. *Temperature*, *10*(2), 198–234. <https://doi.org/10.1080/23328940.2022.2109932>
- Jaminon, A., Reesink, K., Kroon, A., & Schurgers, L. (2019). The Role of Vascular Smooth Muscle Cells in Arterial Remodeling: Focus on Calcification-Related Processes. *International Journal of Molecular Sciences*, *20*(22), 5694. <https://doi.org/10.3390/ijms20225694>
- Jin, Y.-B., Kim, J.-H., Song, C.-H., Park, C., & Kang, C.-K. (2024). Diagnostic Ultrasound-Based Investigation of Central vs. Peripheral Arterial Changes Consequent to Low-Dose Caffeine Ingestion. *Nutrients*, *16*(2), 228. <https://doi.org/10.3390/nu16020228>
- Joiner, W. J. (2018). The Neurobiological Basis of Sleep and Sleep Disorders. *Physiology*, *33*(5), 317–327. <https://doi.org/10.1152/physiol.00013.2018>
- Kajikawa, M., & Higashi, Y. (2024). Blood pressure variability and arterial stiffness: The chicken or the egg? *Hypertension Research*, *47*(5), 1223–1224. <https://doi.org/10.1038/s41440-024-01589-8>
- Kamila, F., & Dainy, N. C. (2023). Faktor-faktor yang Berhubungan dengan Kualitas Tidur Mahasiswa

- Kedokteran dan Kesehatan UMJ. *Jurnal Ilmu Gizi dan Dietetik*, 2(3), 168–174.
<https://doi.org/10.25182/jigd.2023.2.3.168-174>
- Kechagias, K. S., Katsikas Triantafyllidis, K., Kyriakidou, M., Giannos, P., Kalliala, I., Veroniki, A. A., Paraskevaidi, M., & Kyrgiou, M. (2021). The Relation between Caffeine Consumption and Endometriosis: An Updated Systematic Review and Meta-Analysis. *Nutrients*, 13(10), 3457.
<https://doi.org/10.3390/nu13103457>
- Kim, H.-J., Shin, J.-H., Kim, B. S., Kang, J., Lee, H., & Sung, K.-C. (2024). Age-related annual changes in arterial stiffness in healthy adults: Insights from a large Korean cohort study. *Atherosclerosis*, 398, 118592. <https://doi.org/10.1016/j.atherosclerosis.2024.118592>
- Lacolley, P., Regnault, V., & Laurent, S. (2020). Mechanisms of Arterial Stiffening: From Mechanotransduction to Epigenetics. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 40(5), 1055–1062. <https://doi.org/10.1161/ATVBAHA.119.313129>
- Lazarus, M., Shen, H.-Y., Cherasse, Y., Qu, W.-M., Huang, Z.-L., Bass, C. E., Winsky-Sommerer, R., Semba, K., Fredholm, B. B., Boison, D., Hayaishi, O., Urade, Y., & Chen, J.-F. (2011). Arousal Effect of Caffeine Depends on Adenosine A2A Receptors in the Shell of the Nucleus Accumbens. *Journal of Neuroscience*, 31(27), 10067–10075.
<https://doi.org/10.1523/JNEUROSCI.6730-10.2011>
- Liu, X., Yan, G., Bullock, L., Barksdale, D. J., & Logan, J. G. (2021). Sleep moderates the association between arterial stiffness and 24-hour blood pressure variability. *Sleep Medicine*, 83, 222–229.
<https://doi.org/10.1016/j.sleep.2021.04.027>
- Lloyd-Jones, D. M., Allen, N. B., Anderson, C. A. M., Black, T., Brewer, L. C., Foraker, R. E., Grandner, M. A., Lavretsky, H., Perak, A. M., Sharma, G., Rosamond, W., & on behalf of the American Heart Association. (2022). Life’s Essential 8: Updating and Enhancing the American Heart Association’s Construct of Cardiovascular Health: A Presidential Advisory From the American Heart Association. *Circulation*, 146(5).
<https://doi.org/10.1161/CIR.0000000000001078>

- Loehr, L. R., Meyer, M. L., Poon, A. K., Selvin, E., Palta, P., Tanaka, H., Pankow, J. S., Wright, J. D., Griswold, M. E., Wagenknecht, L. E., & Heiss, G. (2016). Prediabetes and Diabetes Are Associated With Arterial Stiffness in Older Adults: The ARIC Study. *American Journal of Hypertension*, 29(9), 1038–1045. <https://doi.org/10.1093/ajh/hpw036>
- Low, J. J.-L., Tan, B. J.-W., Yi, L.-X., Zhou, Z.-D., & Tan, E.-K. (2024). Genetic susceptibility to caffeine intake and metabolism: A systematic review. *Journal of Translational Medicine*, 22(1), 961. <https://doi.org/10.1186/s12967-024-05737-z>
- Ma, T., Liu, X., Ren, Q., Zhang, Z., Sun, X., Zheng, Y., Deng, X., Yu, X., & Fan, Y. (2021). Flow-mediated dilation analysis coupled with nitric oxide transport to enhance the assessment of endothelial function. *Journal of Applied Physiology*, 131(1), 1–14. <https://doi.org/10.1152/jappphysiol.00039.2021>
- Mahriani, Y., Indriyanti, R., Musnamirwan, I. A., & Setiawan, A. S. (2022). A cross-sectional study on dietary assessment, oral hygiene behavior, and oral health status of adolescent girls. *Frontiers in Nutrition*, 9, 973241. <https://doi.org/10.3389/fnut.2022.973241>
- Manivel, R. (2015). Study to Predict Vascular Dysfunctions in High Risk Young Adults- An Immediate Non-Invasive Investigation to Prevent Early Vascular Ageing. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. <https://doi.org/10.7860/JCDR/2015/12358.6146>
- Markus, M. R. P., Rospleszcz, S., Ittermann, T., Baumeister, S. E., Schipf, S., Siewert-Markus, U., Lorbeer, R., Storz, C., Ptushkina, V., Peters, A., Meisinger, C., Bamberg, F., Nauck, M., Bahls, M., Völzke, H., Felix, S. B., Bülow, R., Rathmann, W., & Dörr, M. (2019). Glucose and insulin levels are associated with arterial stiffness and concentric remodeling of the heart. *Cardiovascular Diabetology*, 18(1), 145. <https://doi.org/10.1186/s12933-019-0948-4>
- Meigs, J. M., Bartolomeo, V. R., & Wolfson, A. R. (2022). Methodological review of caffeine assessment strategies with a focus on adolescents. *Sleep Medicine Reviews*, 62, 101587. <https://doi.org/10.1016/j.smr.2021.101587>
- Mescher, A. L., & Junqueira, L. C. U. (2013). *Junqueira's basic histology: Text and atlas* (Thirteenth

- edition). McGraw-Hill Medical.
- Mill, J. G., Baldo, M. P., & De Oliveira Alvim, R. (2024). Arterial stiffness and cardiovascular health: The importance of age and sex-specific cut-off values. *Polish Heart Journal*, 82(10), 924–925. <https://doi.org/10.33963/v.phj.103079>
- Mozos, I., Jianu, D., Stoian, D., Mozos, C., Gug, C., Pricop, M., Marginean, O., & Luca, C. T. (2021). The Relationship Between Dietary Choices and Health and Premature Vascular Ageing. *Heart, Lung and Circulation*, 30(11), 1647–1657. <https://doi.org/10.1016/j.hlc.2021.07.009>
- Murakami, T., Asai, K., Kadono, Y., Nishida, T., Nakamura, H., & Kishima, H. (2019). Assessment of Arterial Stiffness Index Calculated from Accelerated Photoplethysmography. *Artery Research*, 25(1–2), 37–40. <https://doi.org/10.2991/artres.k.191120.001>
- Musa, S. J., Ghazali, A. R., Mohamad Fauzi, N. F., Abd Rahman, A. H., Izham Mohamad, M., & Shanita Safii, N. (2025). Caffeine Ingestion among Athletes Based on Safe Dose Daily Allowance in Malaysia. *Jurnal Gizi Dan Pangan*, 20(1), 31–40. <https://doi.org/10.25182/jgp.2025.20.1.31-40>
- N. Bissonnette, J., Anderson, T.-J., McKearney, K. J., Tibbo, P. G., & Fisher, D. J. (2022). Alteration of Resting Electroencephalography by Acute Caffeine Consumption in Early Phase Psychosis. *Clinical EEG and Neuroscience*, 53(4), 326–334. <https://doi.org/10.1177/15500594211057355>
- Nasir, G. M., Ahmad, J., Aziz, A., Hussain, H., Zafar, R., & Iqbal, A. (2023). Effect of caffeine consumption on sleep quality of undergraduate medical students of Multan. *Journal of Fatima Jinnah Medical University*, 16(3), 102–106. <https://doi.org/10.37018/ZLAX7580>
- Nelson, K. L., Davis, J. E., & Corbett, C. F. (2022). Sleep quality: An evolutionary concept analysis. *Nursing Forum*, 57(1), 144–151. <https://doi.org/10.1111/nuf.12659>
- Ohayon, M., Wickwire, E. M., Hirshkowitz, M., Albert, S. M., Avidan, A., Daly, F. J., Dauvilliers, Y., Ferri, R., Fung, C., Gozal, D., Hazen, N., Krystal, A., Lichstein, K., Mallampalli, M., Plazzi, G., Rawding, R., Scheer, F. A., Somers, V., & Vitiello, M. V. (2017). National Sleep Foundation’s sleep quality recommendations: First report. *Sleep Health*, 3(1), 6–19.

<https://doi.org/10.1016/j.sleh.2016.11.006>

- Paruthi, S., Brooks, L. J., D'Ambrosio, C., Hall, W. A., Kotagal, S., Lloyd, R. M., Malow, B. A., Maski, K., Nichols, C., Quan, S. F., Rosen, C. L., Troester, M. M., & Wise, M. S. (2016). Consensus Statement of the American Academy of Sleep Medicine on the Recommended Amount of Sleep for Healthy Children: Methodology and Discussion. *Journal of Clinical Sleep Medicine*, 12(11), 1549–1561. <https://doi.org/10.5664/jcsm.6288>
- Pilz, N., Heinz, V., Ax, T., Fessler, L., Patzak, A., & Bothe, T. L. (2024). Pulse Wave Velocity: Methodology, Clinical Applications, and Interplay with Heart Rate Variability. *Reviews in Cardiovascular Medicine*, 25(7). <https://doi.org/10.31083/j.rcm2507266>
- Ponte, B., Pruijm, M., Ackermann, D., Ehret, G., Ansermot, N., Staessen, J. A., Vogt, B., Pechère-Bertschi, A., Burnier, M., Martin, P.-Y., Eap, C. B., Bochud, M., & Guessous, I. (2018). Associations of Urinary Caffeine and Caffeine Metabolites With Arterial Stiffness in a Large Population-Based Study. *Mayo Clinic Proceedings*, 93(5), 586–596. <https://doi.org/10.1016/j.mayocp.2017.12.010>
- Pulla, A., Syed, A., & Boliseti, V. (2024). Patterns of caffeine consumption among medical undergraduates in Secunderabad, Telangana, India. *Journal of Education and Health Promotion*, 13(1). https://doi.org/10.4103/jehp.jehp_50_24
- Putra, K. K., & Dharmadi, M. (2018). *Hubungan kualitas tidur terhadap perolehan hasil ujian mahasiswa pre-klinis pendidikan dokter Fakultas Kedokteran Universitas Udayana*.
- Reddy, V. S., Shiva, S., Manikantan, S., & Ramakrishna, S. (2024a). Pharmacology of caffeine and its effects on the human body. *European Journal of Medicinal Chemistry Reports*, 10, 100138. <https://doi.org/10.1016/j.ejmcr.2024.100138>
- Reddy, V. S., Shiva, S., Manikantan, S., & Ramakrishna, S. (2024b). Pharmacology of caffeine and its effects on the human body. *European Journal of Medicinal Chemistry Reports*, 10, 100138. <https://doi.org/10.1016/j.ejmcr.2024.100138>
- Reichert, C. F., Deboer, T., & Landolt, H. (2022). Adenosine, caffeine, and sleep–wake regulation:

- State of the science and perspectives. *Journal of Sleep Research*, 31(4), e13597. <https://doi.org/10.1111/jsr.13597>
- Rodak, K., Kokot, I., & Kratz, E. M. (2021). Caffeine as a Factor Influencing the Functioning of the Human Body—Friend or Foe? *Nutrients*, 13(9), 3088. <https://doi.org/10.3390/nu13093088>
- Ruiz-Moreno, C., Lara, B., Salinero, J. J., Brito De Souza, D., Ordovás, J. M., & Del Coso, J. (2020). Time course of tolerance to adverse effects associated with the ingestion of a moderate dose of caffeine. *European Journal of Nutrition*, 59(7), 3293–3302. <https://doi.org/10.1007/s00394-019-02167-2>
- Santos-Moreno, P., Burgos-Angulo, G., Martínez-Ceballos, M. A., Pizano, A., Echeverri, D., Bautista-Niño, P. K., Roks, A. J. M., & Rojas-Villarraga, A. (2021). Inflammaging as a link between autoimmunity and cardiovascular disease: The case of rheumatoid arthritis. *RMD Open*, 7(1), e001470. <https://doi.org/10.1136/rmdopen-2020-001470>
- Saz-Lara, A., Cavero-Redondo, I., Pascual-Morena, C., Martínez-García, I., Rodríguez-Gutiérrez, E., Lucerón-Lucas-Torres, M., Bizzozero-Peroni, B., Moreno-Herráiz, N., & Martínez-Rodrigo, A. (2023). Early vascular aging as an index of cardiovascular risk in healthy adults: Confirmatory factor analysis from the EVasCu study. *Cardiovascular Diabetology*, 22(1), 209. <https://doi.org/10.1186/s12933-023-01947-9>
- Saz-Lara, A., Lucerón-Lucas-Torres, M., Mesas, A. E., Notario-Pacheco, B., López-Gil, J. F., & Cavero-Redondo, I. (2022). Association between sleep duration and sleep quality with arterial stiffness: A systematic review and meta-analysis. *Sleep Health*, 8(6), 663–670. <https://doi.org/10.1016/j.sleh.2022.07.001>
- Sherwood, Lauralee. (2016). *Human physiology: From cells to systems, 9th edition*. Cengage Learning.
- Stanek, A., Grygiel-Górniak, B., Brożyna-Tkaczyk, K., Myśliński, W., Cholewka, A., & Zolghadri, S. (2023). The Influence of Dietary Interventions on Arterial Stiffness in Overweight and Obese Subjects. *Nutrients*, 15(6), 1440. <https://doi.org/10.3390/nu15061440>
- Stone, K., Veerasingam, D., Meyer, M. L., Heffernan, K. S., Higgins, S., Maria Bruno, R., Bueno, C.

- A., Döerr, M., Schmidt-Trucksäss, A., Terentes-Printzios, D., Voicehovska, J., Climie, R. E., Park, C., Pucci, G., Bahls, M., Stoner, L., & On behalf of the Network for Research in Vascular Ageing (VascAgeNet). (2023). Reimagining the Value of Brachial-Ankle Pulse Wave Velocity as a Biomarker of Cardiovascular Disease Risk—A Call to Action on Behalf of VascAgeNet. *Hypertension*, *80*(10), 1980–1992. <https://doi.org/10.1161/hypertensionaha.123.21314>
- Suboh, M. Z., Jaafar, R., Nayan, N. A., Harun, N. H., & Mohamad, M. S. F. (2022). Analysis on Four Derivative Waveforms of Photoplethysmogram (PPG) for Fiducial Point Detection. *Frontiers in Public Health*, *10*. <https://doi.org/10.3389/fpubh.2022.920946>
- Sugiura, T., Dohi, Y., Takase, H., Yamashita, S., Fujii, S., & Ohte, N. (2017). Oxidative Stress is Closely Associated with Increased Arterial Stiffness, Especially in Aged Male Smokers without Previous Cardiovascular Events: A Cross-Sectional Study. *Journal of Atherosclerosis and Thrombosis*, *24*(11), 1186–1198. <https://doi.org/10.5551/jat.39289>
- Suneja, M., & Sanders, M. L. (2017). Hypertensive Emergency. *Medical Clinics of North America*, *101*(3), 465–478. <https://doi.org/10.1016/j.mcna.2016.12.007>
- Szaló, G., Eriksson, M. C. M., Hellgren, M., Ottarsdottir, K., Li, Y., Chen, Y., Rådholm, K., Brumback, L. C., Allison, M., Lindblad, U., & Daka, B. (2025). Perceived stress is associated with impaired artery elasticity: An observational study from the Vara- Skövde cohort. *PLOS One*, *20*(11), e0336298. <https://doi.org/10.1371/journal.pone.0336298>
- Tang, X., Liu, Y., Xiao, Q., Yao, Q., Allen, M., Wang, Y., Gao, L., Qi, Y., & Zhang, P. (2018). Pathological cyclic strain promotes proliferation of vascular smooth muscle cells via the ACTH/ERK/STAT3 pathway. *Journal of Cellular Biochemistry*, *119*(10), 8260–8270. <https://doi.org/10.1002/jcb.26839>
- Vallée, A. (2022). Arterial Stiffness Determinants for Primary Cardiovascular Prevention among Healthy Participants. *Journal of Clinical Medicine*, *11*(9), 2512. <https://doi.org/10.3390/jcm11092512>
- Van Dam, R. M., Hu, F. B., & Willett, W. C. (2020). Coffee, Caffeine, and Health. *New England*

- Journal of Medicine*, 383(4), 369–378. <https://doi.org/10.1056/NEJMra1816604>
- Vasan, R. S. (2006). Biomarkers of Cardiovascular Disease: Molecular Basis and Practical Considerations. *Circulation*, 113(19), 2335–2362. <https://doi.org/10.1161/CIRCULATIONAHA.104.482570>
- Vidović, S., Rakić, N., Kraštek, S., Pešikan, A., Degmečić, D., Zibar, L., Labak, I., Heffer, M., & Pogorelić, Z. (2025). Sleep Quality and Mental Health Among Medical Students: A Cross-Sectional Study. *Journal of Clinical Medicine*, 14(7), 2274. <https://doi.org/10.3390/jcm14072274>
- Vlachopoulos, C., Panagiotakos, D., Ioakeimidis, N., Dima, I., & Stefanadis, C. (2005). Chronic coffee consumption has a detrimental effect on aortic stiffness and wave reflections. *The American Journal of Clinical Nutrition*, 81(6), 1307–1312. <https://doi.org/10.1093/ajcn/81.6.1307>
- Wen, W., Luo, R., Tang, X., Tang, L., Huang, H. X., Wen, X., Hu, S., & Peng, B. (2015). Age-related progression of arterial stiffness and its elevated positive association with blood pressure in healthy people. *Atherosclerosis*, 238(1), 147–152. <https://doi.org/10.1016/j.atherosclerosis.2014.10.089>
- Westerhof, N., Stergiopoulos, N., Noble, M. I. M., & Westerhof, B. E. (2019). The Arterial Windkessel. In N. Westerhof, N. Stergiopoulos, M. I. M. Noble, & B. E. Westerhof, *Snapshots of Hemodynamics* (pp. 207–216). Springer International Publishing. https://doi.org/10.1007/978-3-319-91932-4_25
- Wicaksari, S. A. (2022). *Source of Sugar-sweetened Beverages Consumption Among Indonesian: A Mini Review*.
- Wikoff, D., Welsh, B. T., Henderson, R., Brorby, G. P., Britt, J., Myers, E., Goldberger, J., Lieberman, H. R., O'Brien, C., Peck, J., Tenenbein, M., Weaver, C., Harvey, S., Urban, J., & Doepker, C. (2017). Systematic review of the potential adverse effects of caffeine consumption in healthy adults, pregnant women, adolescents, and children. *Food and Chemical Toxicology*, 109, 585–648. <https://doi.org/10.1016/j.fct.2017.04.002>

- Wilkinson, I. B., Mäki-Petäjä, K. M., & Mitchell, G. F. (2020). Uses of Arterial Stiffness in Clinical Practice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 40(5), 1063–1067.
<https://doi.org/10.1161/ATVBAHA.120.313130>
- Wilson, P. W. F., & Bloom, H. L. (2016). Caffeine Consumption and Cardiovascular Risks: Little Cause for Concern. *Journal of the American Heart Association*, 5(1), e003089.
<https://doi.org/10.1161/JAHA.115.003089>
- Wright, K. P., Drake, A. L., Frey, D. J., Fleshner, M., Desouza, C. A., Gronfier, C., & Czeisler, C. A. (2015). Influence of sleep deprivation and circadian misalignment on cortisol, inflammatory markers, and cytokine balance. *Brain, Behavior, and Immunity*, 47, 24–34.
<https://doi.org/10.1016/j.bbi.2015.01.004>
- Yang, J., Chen, X., Chen, X., & Li, L. (2025). Physical Activity and Arterial Stiffness: A Narrative Review. *The Journal of Clinical Hypertension*, 27(1), e14941.
<https://doi.org/10.1111/jch.14941>
- Yilmaz, D., Tanrikulu, F., & Dikmen, Y. (2017). Research On Sleep Quality And The Factors Affecting The Sleep Quality Of The Nursing Students. *Current Health Sciences Journal*, 1, 20–24.
<https://doi.org/10.12865/Chsj.43.01.03>
- Zhang, B., Wang, Y., Zhai, Z., Sun, J., Yang, J., Li, Y., & Wang, C. (2021). [Review of *The association of sleep quality and night sleep duration with coronary heart disease in a large-scale rural population*, by X. Liu]. *Sleep Medicine*, 87, 233–240.
<https://doi.org/10.1016/j.sleep.2021.09.013>