DAFTAR PUSTAKA

Agita, A., & Thaha, M. (2017). Inflammation, immunity, and hypertension. *Acta Medica Indonesiana*, *49*(2), 158–165.

Agusri, A., Ananla, S., Masyudi, M., Afdalina, M., & Akbar, Y. (2024). Hipertensi faktor yang mempengaruhi hipertensi pada masyarakat. *Jurnal Keperawatan*, *22*(1), 79-87.

Ames, J., Puleri, D. F., Balogh, P., Gounley, J., Draeger, E. W., & Randles, A. (2020). Multi-GPU immersed boundary method hemodynamics simulations. *Journal of Computational Science, 44* (1), 90-94.

American Heart Association, & American College of Cardiology. (2025). 2025 AHA/ACC guideline for the prevention, detection, evaluation, and management of high blood pressure in adults. *Circulation and Hypertension*. *86*(18):1567-1678.

Amponsah-Offeh, M., Diaba-Nuhoho, P., Speier, S., & Morawietz, H. (2023). Oxidative stress, antioxidants and hypertension. *Antioxidants, 12*(2), 281-282.

Arockiadoss, E. J., Sulaiman, M., & Sethuraman, S. P. (2025). Pharmacognostic standardisation of *Polyscias scutellaria* (Shield Aralia). *European Journal of Pharmaceutical and Medical Research, 12*(5), 586–594.

Badyal, D. K., Lata, H., & Dadhich, A. P. (2003). Animal models of hypertension and effect of drugs. *Indian Journal of pharmacology*, *35*(6), 349-362.

Ballut, O. M., Alzahrani, A. A., Alzahrani, R. A., Alzahrani, A. T., Alzahrani, R. A., Alzahrani, M. F., & Alghamdi, N. A. (2023). The impact of non-pharmacological interventions on blood pressure control in patients with hypertension: A systematic review. *Cureus, 15*(11), 493-495.

Biffi, A., Quarti-Trevano, F., Vanoli, J., Dell'Oro, R., Corrao, G., Mancia, G., & Grassi, G. (2024). Effects of acute carotid baroreceptor stimulation on sympathetic nerve traffic in resistant and uncontrolled hypertension: A systematic review and meta-analysis. *Hypertension Research, 47*(7), 1962–1969.

Bigiarelli, K. J. (2022). Rodent thermoregulation: considerations for tail-cuff blood pressure measurements. *Journal of the American Association for Laboratory Animal Science*, *61*(5), 406-411.

Budiono, B., Pertami, S. B., Arifah, S. N., & Atho'illah, M. F. (2023). Lactogenic effect of *Polyscias scutellaria* extract to maintain postpartum prolactin and oxytocin in lactating rats. *Journal of Ayurveda and Integrative Medicine, 14*(2), 100-110.

Canuto, J. A., Sampaio, T. L., Silva, M. E. D., Costa, M. D. R. D., Almeida, I. M. D., Magalhães, E. P., & Martins, A. M. C. (2021). Protective effect of quercetin on renal tubular cells and the involvement with the renin-angiotensin-aldosterone axis. *Brazilian Archives of Biology and Technology, 64* (1). 96-99.

Chail, R. (2016). *Anatomi Fisiologi Manusia*. Jakarta: Kementerian Kesehatan Rl.

Daugherty, A., Rateri, D., Hong, L., & Balakrishnan, A. (2009). Measuring blood pressure in mice using volume pressure recording, a tail-cuff method. *Journal of visualized experiments: JoVE*, 3 (27), 291-299.

DeMers, D., & Wachs, D. (2023). *Physiology, mean arterial pressure*. Treasure Island (FL): StatPearls Publishing.

Departemen Kesehatan Republik Indonesia. (1995). *Farmakope Indonesia* (Edisi IV). Jakarta: Departemen Kesehatan RI.

De Mello, W. C. (2015). Renin–Angiotensin System and Hypertension. *Journal of Cardiovascular Development and Disease, 2*(3), 96–111

DiPiro, J. T., Talbert, R. L., Yee, G. C., Matzke, G. R., Wells, B. G., & Posey, L. M. (2020). *Pharmacotherapy: A Pathophysiologic Approach* (11th Ed.). New York: McGraw-Hill Education.

Eddouks, M., Chattopadhyay, D., & Zeggwagh, N. A. (2012). Animal models as tools to investigate antidiabetic and anti-inflammatory plants. *Evidence-Based Complementary and Alternative Medicine, 12*(1), 88-95.

Emilia, I., Setiawan, A. A., Novianti, D., Mutiara, D., & Rangga, R. (2023). Skrining fitokimia ekstrak daun sungkai (*Peronema canescens Jack*.) secara infundasi dan maserasi. *Indobiosains, 5*(2), 95–102.

Evangeline, J. A., Sakthipriyadarsini, S., & Kamaraj, R. (2024). *Polyscias scutellaria* (Shield Aralia): Botanical, ethnobotanical, nutritional, phytochemical, and pharmacological review. *International Journal of Biopharmaceutical & Allied Sciences, 13*(8), 3833–3846.

Fardet, L., Nazareth, I., & Petersen, I. (2015). Synthetic glucocorticoids and early variations of blood pressure: a population-based cohort study. *The Journal of Clinical Endocrinology & Metabolism*, *100*(7), 2777-2783.

Ferreira, A. S., et al. (2020). Caesalpinia ferrea C. Mart. (Fabaceae): Phytochemistry, Ethnobotany, and Bioactivities: A Review. *Journal Molecules, 25*(17), 124-149.

Goodman and Gilman's. (2006). *The Pharmacological Basis of Therapeutics* (11th Ed.). New York: McGraw-Hill Medical.

Hakim, A. R., Savitri, A. S., & Saputri, R. (2021). Aktivitas antioksidan dari infusa kelakai (*Stenochlaena palustris* (Burm. F) Bedd). *Journal of Pharmaceutical Care and Sciences, 1*(2), 121–125.

Harborne, J. B. (1987). *Metode Fitokimia: Penuntun Cara Modern Menganalisis Tumbuhan* (Padmawinata, K., Trans.). Bandung: ITB Press.

Hsu, C. N., & Tain, Y. L. (2019). Regulation of nitric oxide production in the developmental programming of hypertension and kidney disease. *International Journal of Molecular Sciences, 20*(3), 681-692.

Javanbakht, S., & Shaabani, A. (2019). Carboxymethyl cellulose-based oral delivery systems. *International journal of biological macromolecules, 133*(7), 21–29.

Kalyan, P. B. A., Ivvala, J., & Naveen, M. (2017). A review on blood viscosity and its influence on blood pressure. *International Journal for Research in Applied Science & Engineering Technology, 5*(4), 33-40.

Kamada, H., Nakamura, M., Ota, H., Higuchi, S., & Takase, K. (2022). Blood flow analysis with computational fluid dynamics and 4D-flow MRI for vascular diseases. *Journal of Cardiology, 80*, 386–396.

Kartono, A., Sumaryada, T. I., & Fitri, R. E. (2015). *Kinetika absorpsi Obat Oral Menggunakan Model Kompartemen dan Transit dengan Termodifikasi Persamaan Usus Halus.* Bogor: IPB University.

Kasmara, D. P., Rashid, N. A., & Perangin–Angin, S. A. B. (2024). The active compounds in *Polyscias scutellaria* identified based on the solvent. *Prosiding International Conference on Health Sciences, 2*(2), 143–147.

Kasmara, D. P., & Abd Rashid, N. (2025). *Polyscias scutellaria* as natural plant. *International Journal of Health Sciences (IJHS), 3*(2). 88-89.

Katzung, B. G., SBM, & AJT. (2018). *Basic and Clinical Pharmacology* (14th Ed.). New York: McGraw-Hill Education.

Kementerian Kesehatan Republik Indonesia. (2017*). Farmakope Herbal Indonesia (Edisi II).* Jakarta: Kementerian Kesehatan Republik Indonesia.

Kementerian Kesehatan Republik Indonesia. (2023). *Riset Kesehatan Dasar 2023*. Jakarta: Badan Kebijakan Pembangunan Kesehatan.

Komang, W. A. P., Aisyah, R., & Hardiana, I. (2023). Uji efektivitas antihipertensi ekstrak etanol bawang putih (*Allium sativum* Linn.) Bali pada hewan coba mencit jantan. *Jurnal Farmasi Kryonaut, 2*(2), 108–115.

Kurniawan, M. R., & Humaedi, A. (2021). The potential of active compounds *polyscias scutellaria* as inhibitors in cervical cancer with virtual screening approach. *Jurnal Kimia dan Kemasan*, *43*(1), 22-28.

Lee, H. Y., Shin, J., Kim, G. H., Park, S., Ihm, S. H., Kim, H. C., & Chae, S. C. (2019). 2018 Korean Society of Hypertension Guidelines for the management of hypertension: Part II—Diagnosis and treatment. *Clinical Hypertension, 25*(1), 20-25.

Maniero, C., Lopuszko, A., Papalois, K. B., Gupta, A., Kapil, V., & Khanji, M. Y. (2023). Non-pharmacological factors for hypertension management: A systematic review of international guidelines. *European Journal of Preventive Cardiology, 30*(1), 17–33.

Maliza, F. N., & Pratiwi, M. (2024). Artikel Review: Efek Samping Obat Pada Pasien Hipertensi. *Journal Pharmacy Aisyah*, *3*(1), 29-32.

Martin, S. S., Aday, A. W., Allen, N. B., Almarzooq, Z. I., Anderson, C. A., Arora, P., & American Heart Association Council on Epidemiology and Prevention Statistics Committee and Stroke Statistics Committee. (2025). 2025 heart disease and stroke statistics: A report of US and global data from the American Heart Association. *Circulation, 151*(8), 60-69.

Marin, N., Moragon, A., Gil, D., Garcia-Garcia, F., & Bisbal, V. (2023). Acclimation and blood sampling: Effects on stress markers in C57Bl/6J mice. *Animals, 13*(18), 2816-2819.

Martin, S. S., Aday, A. W., Allen, N. B., Almarzooq, Z. I., Anderson, C. A., Arora, P., & American Heart Association Council on Epidemiology and Prevention Statistics Committee and Stroke Statistics Committee. (2025). 2025 heart disease and stroke statistics: a report of US and global data from the American Heart Association. *Circulation*, *151*(8), 44-49.

Masenga, S. K., & Kirabo, A. (2023). Hypertensive heart disease: risk factors, complications and mechanisms. *Frontiers in Cardiovascular Medicine, 10* (2), 45-57.

Muhar, A. M., Velaro, A. J., Prananda, A. T., Nugraha, S. E., Çamlik, G., Wasnik, S., & Syahputra, R. A. (2023). *Polyscias scutellaria*: An emerging source of natural antioxidants and anti-inflammatory compounds for health. *Pharmacia*, *70* (2), 1463-1470.

Mukherjee, P., Roy, S., Ghosh, D., & Nandi, S. K. (2022). Role of animal models in biomedical research: a review. *Laboratory animal research, 38*(1), 18-33.

Nurfitri, M. M., De Queljoe, E., & Datu, O. S. (2021). Uji efek analgetik ekstrak etanol daun kumis kucing terhadap tikus putih jantan. *Pharmacon, 10*(4), 1155–1161.

Nurhaslina, C. R., Bacho, S. A., & Mustapa, A. N. (2022). Review on drying methods for herbal plants. *Materials Today: Proceedings*, *63* (4), 22-139.

Oktavia, S. N., Wahyuningsih, E., & Andasari, S. D. (2020). Skrining fitokimia dari infusa dan ekstrak etanol 70% daun cincau hijau (*Cyclea barbata* Miers). *Jurnal Ilmu Farmasi*, *11*(1), 1-6.

Omboni, S., & Volpe, M. (2018). Management of arterial hypertension with angiotensin receptor blockers: Current evidence and the role of olmesartan. *Cardiovascular Therapeutics, 36*(6), 22-39.

Oyagbemi, A. A., Bolaji-Alabi, F. B., Ajibade, T. O., Adejumobi, O. A., Ajani, O. S., Jarikre, T. A., & Yakubu, M. A. (2020). Novel antihypertensive action of rutin is mediated via inhibition of angiotensin converting enzyme/mineralocorticoid receptor/angiotensin 2 type 1 receptor (ATR1) signaling pathways in uninephrectomized hypertensive rats. *Journal of Food Biochemistry*, *44*(12), 66-87.

Permatasari, D., Khairunnisa, P., Rosyari, K., Wahyuni, F. S., Aldi, Y., & Armenia, A. (2022). Antioxidant associated antihypertensive performance of purified gambir (Uncaria gambir Roxb.) on prednisone salt-induced hypertensive rats. *Open Access Macedonian Journal of Medical Sciences*, *10*(A), 390-395.

Pikir, B. S., Muhammad, A., Subagjo, A., Dharmadjati, B., Suryawan, I. G. R., & Nugroho, P. J. E. (2015). *Hipertensi: Manajemen komprehensif*. Surabaya: Airlangga University.

Putri, N. M., Putri, J. R., Elya, B., & Adawiyah, R. (2020). Antifungal activity of *Polyscias scutellaria* Fosberg leaves against *Candida albicans*. *Pharmaceutical Sciences and Research, 7*(3), 166–170.

Rachma, D. E., Murwani, R., & Juniarto, A. Z. (2020). Dietary fresh and boiled mangkokan leaves (*Nothopanax scutellarius*) normalized body weight, serum lipid profile and malondialdehyde in metabolic syndrome rats. *Current Research in Nutrition and Food Science Journal*, *8*(3), 889-890.

Rakhmawatie, M. D., & Marfu'ati, N. (2023). Pembuatan simplisia dan teknik penyiapan obat tradisional jahe merah dan daun pepaya untuk standardisasi dosis. Berdikari: *Jurnal Inovasi dan Penerapan Ipteks, 11*(1), 12–24.

Ramadhani, R., & Oktavilantika, D. M. (2022). Uji efektivitas antibakteri ekstrak daun mangkokan (*Polyscias scutellaria* Burm. f.) terhadap bakteri *Escherichia coli*. *Journal of Pharmacy, Medical and Health Science, 3(1*), 63-79.

Rooi, D., Botha-Le Roux, S., & Breet, Y. (2024). Perfusion and pulsatile pressure: Their relationship with target organ damage in the African-Predict study. *BMC Cardiovascular Disorders, 24*(1), 399-410.

Rosa, D., Halim, Y., Kam, N., Sugata, M., & Samantha, A. (2019). Antibacterial activity of *Polyscias scutellaria Fosberg* against *Acinetobacter* sp. *Asian Journal of Pharmaceutical and Clinical Research*, *12*(1), 516-529.

Rumiyati, R., Hakim, A. R., Winarti, A. D., & Septia, D. N. (2016). Antihypertensive testing of combination *Apium graveolans* L., *Orthosiphon stamineus* Benth., *and Morinda citrifolial* extract on normotensive and hypertensive Sprague Dawley rats. *Majalah Obat Tradisional*, *21*(3), 149-156.

Sandhiutami, N. M. D., Dewi, R. S., Rahma, F., & Yang, F. (2022). Potential use of some Indonesian plants to inhibit angiotensin-converting enzyme in vitro. *Journal of Medical Sciences, 10*(A), 1571–1576.

Schreiner, T. B., Dias, M. M., Barreiro, M. F., & Pinho, S. P. (2022). Saponins as natural emulsifiers for nanoemulsions. *Journal of Agricultural and Food Chemistry, 70(22)*, 6573-6590.

Septiyan, T., Dewi, L., Saepudin, S., & Rahayu, I. (2024). Uji aktivitas antihipertensi seduhan rambut jagung (*Zea mays* L.) terhadap mencit jantan galur Swiss Webster. *Pharmaceutical Science and Clinical Pharmacy, 2*(2), 75–81.

Shanks, J., & Ramchandra, R. (2021). Angiotensin II and the cardiac parasympathetic nervous system in hypertension. *International Journal of Molecular Sciences, 22*(22), 123-135.

Shargel, L., Yu, A., & Wu, S. (2005). *Biofarmasetika dan farmakokinetika terapan* (Edisi ke-2) Surabaya: Airlangga University.

Sianipar, E. A., Lin, B., Chiara, M. A., & Nurcahyanti, A. D. (2022). Quick-identification of total phenolic and flavonoid content of *Mangifera foetida, Lagerstroemia speciosa* and Impatiens *balsamina gathered* from Riau, Sumatera. *Research Journal of Pharmacy and Technology, 15(1*), 311-314.

Sitompul, M. D., Widyapurwanti, K. D., Dewi, N. L. P. P., & Warditiani, N. K. (2022). Uji efek antihipertensi ekstrak etanol 96% akar pule pandak (*Rauvolfia serpentina* (L.) Benth. Ex Kurz.) Pada Mencit (M*us musculus). Syntax Literate; Jurnal Ilmiah Indonesia*, *7*(2), 838-851.

Śliwińska, A., Figat, R., Zgadzaj, A., Wileńska, B., Misicka, A., Nałęcz-Jawecki, G., & Sykłowska-Baranek, K. (2021). *Polyscias filicifolia* hairy roots with antigenotoxic and anti-photogenotoxic activity. *Molecules, 27(1*), 186-190.

Standley, A., Xie, J., Lau, A. W., Grote, L., & Gifford, A. J. (2024). Working with miraculous mice: *Mus musculus* as a model organism. *Current Protocols, 4*(10), 590-599.

Sultana, S., & Asif, H. M. (2017). Review: Medicinal plants combating against hypertension: A green antihypertensive approach. *Pakistan journal of pharmaceutical sciences, 30(6*), 2311-2319.

Sweetman, S. C. (Ed.). (2020). *Martindale: The Complete Drug Reference* (41st Ed.). London: Pharmaceutical Press.

Syaifuddin. 2011. *Anatomi Fisiologi: Kurikulum Berbasis Kompetensi untuk Keperawatan & Kebidanan* (Edisi 4). Jakarta: EGC.

Syed, F., Khan, S., & Toma, M. (2023). Modeling dynamics of the cardiovascular system using fluid–structure interaction methods. *Biology, 12*(7), 1026-1036.

Thongsepee, N., Martviset, P., Chantree, P., Sornchuer, P., Sangpairoj, K., Prathaphan, P., & Hiranyachattada, S. (2022). Daily consumption of monosodium glutamate pronounced hypertension and altered renal excretory function in normotensive and hypertensive rats. *Heliyon, 8*(10). 234-245.

Ulfa, Fatmawaty A., & Dambur. (2023). Anti-Acne Patch Formulation Silkworm Cocoon Waste With Hpmc And Pvp Variations. *Indonesian Journal of Pharmaceutical Science and Technology, 10*(3) 90-95.

Unger, T., Borghi, C., Charchar, F., Khan, N. A., Poulter, N. R., Prabhakaran, D., & Schutte, A. E. (2020). 2020 International Society of Hypertension global hypertension practice guidelines. *Hypertension, 75*(6), 1334–1357.

Wang, Y., Thatcher, S. E., & Cassis, L. A. (2017). Measuring blood pressure using a noninvasive tail cuff method in mice. *Journal of pharmaceutical. 60*(4), 69-73.

World Health Organization. (2024). *Global report on hypertension: The race against a silent killer*. Geneva: World Health Organization.

Wilde, E., Aubdool, A. A., Thakore, P., Baldissera Jr, L., Alawi, K. M., Keeble, J., & Brain, S. D. (2017). Tail-cuff technique and its influence on central blood pressure in the mouse. *Journal of the American Heart Association*, *6*(6), 520-530.

Xia, M., Wang, T., Wang, Y., Hu, T., Chen, D., & Wang, B. (2024). A neural perspective on the treatment of hypertension: The neurological network excitation and inhibition imbalance. *Frontiers in Cardiovascular Medicineand Technology*, *250*(1), 1-13.

Yani, A., Patricia, V., & Syafii, F. (2023). Phytochemical composition and inhibitory activities of *Hibiscus sabdariffa* and *Cucumis sativus* infusions against angiotensin-converting enzyme. *Tropical Journal of Natural Product Research, 7(*2), 2411–2416.

Yamagata, K. (2024). Onion quercetin inhibits vascular endothelial cell dysfunction and prevents hypertension. *European Food Research and Technology*, *250*(1), 1-13.

Xia, M., Wang, T., Wang, Y., Hu, T., Chen, D., & Wang, B. (2024). A neural perspective on the treatment of hypertension: The neurological network excitation and inhibition imbalance. *Frontiers in Cardiovascular Medicineand Technology*, *250*(1), 1-13.

Zhang, Y., Cai, P., Cheng, G., & Zhang, Y. (2022). A brief review of phenolic compounds identified from plants: Their extraction, analysis, and biological activity. *Natural product communications, 17(1*), 1-13.