

## DAFTAR PUSTAKA

- Anjomshoa S, Namazian M, Noorbala MR. 2017. Is Curcumin a Good Scavenger of Reactive Oxygen Species? A Computational Investigation. *Theoretical Chemistry Accounts*. 136(103): 1-6.
- Astuti VW, Tasman, Amri LF. 2021. Prevalensi dan Analisis Faktor Risiko Hipertensi pada Masyarakat di Wilayah Kerja Puskesmas Nanggalo Padang. *Berkala Ilmiah Mahasiswa Ilmu Keperawatan Indonesia*. 9(1): 1–9.
- Badan Penelitian dan Pengembangan Kesehatan (Balitbangkes). 2013. *Laporan Nasional Riset Kesehatan Dasar 2013*. Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan: Jakarta.
- Badan Penelitian dan Pengembangan Kesehatan (Balitbangkes). 2018. *Laporan Nasional Riset Kesehatan Dasar 2018*. Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan: Jakarta.
- Barzegar A, Moosavi-Movahedi AA. 2011. Intracellular ROS Protection Efficiency and Free Radical-Scavenging Activity of Curcumin. *PLoS ONE*. 6(10): e26012.
- Basting T, Lazartigues E. 2017. DOCA-Salt Hypertension: an Update. *Current Hypertension Reports*. 19(4): 32.
- Bkaily G, Jacques D. 2023. Morphological and Functional Remodeling of Vascular Endothelium in Cardiovascular Diseases. *International Journal of Medicine*. 24(3): 1-13.
- Böhm F, Pernow J. 2007. The Importance of Endothelin-1 for Vascular Dysfunction in Cardiovascular Disease. *Cardiovascular Research*. 76(1): 8-18.

- Briones AM, Touyz RM. 2019. Aldosterone/MR Signaling, Oxidative Stress, and Vascular Dysfunction. In: Harley J, Jaisser F. *Aldosterone-Mineralocorticoid Receptor-Cell Biology to Translational Medicine*. InTechOpen.
- Brown NJ. 2008. Aldosterone and Vascular Inflammation. *Hypertension*. 51: 161-167.
- Brown IAM, Diederich L, Good ME, DeLalio LJ, Murphy SA, Cortese-Krott MM, Hall JL, Le TH, Isakson BE. 2018. Vascular Smooth Muscle Remodeling in Conductive and Resistance Arteries in Hypertension. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 38(9): 1969–1985.
- Brunton LL, Hilal-Dandan R, Knollman BC. 2018. *Goodman & Gilman's: The Pharmacological Basis of Therapeutics*. 13<sup>th</sup> edition. McGraw-Hill Education : New York.
- Campinho P, Vilfan A, Vermot J. 2020. Blood Flow Forces in Shaping the Vascular System: A Focus on Endothelial Cell Behavior. *Frontiers in Physiology*. 11(552): 1-12.
- Citi V, Martelli A, Gorica A, Brogi S, Testai L, Calderone V. 2021. Role of Hydrogen Sulfide in Endothelial Dysfunction: Pathophysiology and Therapeutic Approaches. *Journal of Advanced Research*. 27: 99-113.
- Collister JP, Nahey DB, Hartson R, Wiedmeyer CE, Banek CT, Osborn JW. 2018. Lesion of the OVLT Markedly Attenuates Chronic DOCA-Salt Hypertension in Rats. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*. 315(3): R568-R575.
- Crabtree MJ, Hale AB, Channon KM. 2011. Dihydrofolate Reductase Protects Endothelial Nitric Oxide Synthase from Uncoupling in Tetrahydrobiopterin Deficiency. *Free Radical Biology & Medicine*. 50(11): 1639–1646.

- Dhaun N, Goddard J, Kohan DE, Pollock DM, Schiffrin EL, Webb DJ. 2008. Role of Endothelin-1 in Clinical Hypertension 20 Years On. *Hypertension*. 52: 452-459.
- Diatmika IKDP, Artini GA, Ernawati DK. 2018. Profil Efek Samping Kaptopril pada Pasien Hipertensi di Puskesmas Denpasar Timur I Periode Oktober 2017. *E-Jurnal Medika Udayana*. 7(5): 221-225.
- Gallo G, Valpo M, Savoia C. 2021. Endothelial Dysfunction in Hypertension: Current Concepts and Clinical Implications. *Frontiers in Medicine*. 8: 798958.
- Genovesi S, Giussani M, Orlando A, Lieti G, Viazzi F, Parati G. Relationship between Endothelin and Nitric Oxide Pathways in the Onset and Maintenance of Hypertension in Children and Adolescents. *Pediatric Nephrology*. 37: 537-545.
- Groel JT, Tadros SS, Dreslinski GR, Jenkins AC. 1983. Long-Term Antihypertensive Therapy with Captopril. *Hypertension*. 5(5): 145-151.
- Gupta A, Kumar R, Bhattacharyya P, Bishayec A, Pandey AK. 2020. *Terminalia bellirica* (Gaertn.) Roxb. (Bahera) in Health and Disease: A Systematic and Comprehensive Review. *Phytomedicine*. 77 (153278): 1-26.
- Heeneman S, Sluimer JC, Daemen MJAP. 2007. Angiotensin-Converting Enzyme and Vascular Remodeling. *Circulation Research*. 101(5): 441 - 454.
- Hermawati E, Arfian N, Mustofa, Partadiredja G. 2018. Spatial Artery Disturbance Following Transient Brain Ischemia is Associated with Vascular Remodeling in Hippocampus. *Kobe Journal of Medical Sciences*. 64(3): 93-106.
- Heusch G, Libby P, Gersh B, Yellon D, Böhm M, Lopaschuk G, Opie L. 2014. Lancet Seminar: Cardiovascular Remodelling in Coronary Artery Disease and Heart Failure. *Lancet*. 383(9932): 1933-1943.

- Hitner H, Nagle B. 2016. *Pharmacology: An Introduction*. 7<sup>th</sup> edition. McGraw-Hill Education: New York.
- Husna N, Handayani R, Zakiah N, Aulianshah V. 2021. Efek Diuretik Ekstrak Etanol Kapulaga (*Amomum compactum*) pada Mencit (*Mus musculus*) Jantan. *Jurnal Ilmiah Farmasi Simplisia*. 1(2): 112-118.
- Iciek M, Kowalczyk-Pachel D, Bilska-Wilkosz A, Kwiecien I, Gorny M, Włodek L. 2016. S-sulphydration as a Cellular Redox Regulation. *Bioscience Reports*. 36(2): e00304.
- Intengan HD, Park JB, Schiffrin EL. 1999. Blood Pressure and Small Arteries in DOCA-Salt-Treated Genetically AVP-Deficient Rats. *Hypertension*. 34(4): 907-913.
- Intengan HD, Schiffrin EL. 2001. Vascular Remodeling in Hypertension: Roles of Apoptosis, Inflammation, and Fibrosis. *Hypertension*. 38(2): 581-587.
- Iyer A, Chan V, Brown L. 2010. The DOCA-Salt Hypertensive Rat as a Model of Cardiovascular Oxidative and Inflammatory Stress. *Current Cardiology Reviews*. 6 (4): 291-297.
- Jameson JL, Kasper DL, Longo DL, Fauci AS, Hauser SL, Loscalzo J. 2018. *Harrison's Principles of Internal Medicine*. 20<sup>th</sup> edition. McGraw-Hill Education : United States.
- Jamwal S, Sharma S. 2023. Rat Model of DOCA-Salt-Induced Hypertension. *World Journal of Pharmacology and Toxicology*. 6(1).
- Janaszak-Jasiecka A, Płoska A, Wierońska JM, Dobrucki LW, Kalinowski L. 2023. Endothelial Dysfunction due to eNOS Uncoupling: Molecular Mechanisms as Potential Therapeutic Targets. *Cellular & Molecular Biology Letters*. 28(21): 1-28.
- Kandlikar SS, Fink GD. 2011. Splanchnic Sympathetic Nerves in the Development of Mild DOCA-Salt Hypertension. *American Journal Physiology: Heart and Circulatory Physiology*. 301(5): H1965-1973.

- Katzung BG. 2018. *Basic & Clinical Pharmacology*. 14<sup>th</sup> edition. McGraw-Hill Education: United States of America.
- Khan AU, Gilani AH. 2008. Pharmacodynamic Evaluation of *Terminalia bellerica* for Its Antihypertensive Effect. *Journal of Food and Drug Analysis*. 16 (3): 6-14.
- Kim HL, Park YS. 2010. Maintenance of Cellular Tetrahydrobiopterin Homeostasis. *BMB Reports*. 43(9): 584-592
- Kostov K. 2021. The Causal Relationship between Endothelin-1 and Hypertension: Focusing on Endothelial Dysfunction, Arterial Stiffness, Vascular Remodeling, and Blood Pressure Regulation. *Life (Basel)*. 11(9): 986.
- Lee Y, Im E. 2021. Regulation of miRNAs by Natural Antioxidants in Cardiovascular Diseases: Focus on SIRT1 and eNOS. *Antioxidants*. 10(3): 377.
- Li H, Förstermann U. 2017. Chapter 9 - Uncoupling of eNOS in Cardiovascular Disease. In: *Nitric Oxide*. 3<sup>rd</sup> edition. Academic Press.
- Liauchonak I, Dawoud F, Riat Y, Qorri B, Sambhi M, Jain J, Kalaydina RV, Mendonza N, Bajwa K, Szewczuk MR. 2018. The Biased G-Protein-Coupled Receptor Agonism Bridges the Gap between the Insulin Receptor and the Metabolic Syndrome. *International Journal of Molecular Sciences*. 19(2): 1-20.
- Man AWC, Wang Y. 2017. Age-Associated Arterial Remodeling. *Biology, Medicine*. Available at: <https://www.semanticscholar.org/paper/Age-associated-arterial-remodeling-Man-Wang/459b8dbbbb3fadea9942b8c89b50b17a16a998d9#related-papers>.
- Marte F, Sankar P, Cassagnol M. 2022. *Captopril*. In: StatPearls [Internet]. Treasure Island (FL): StatPearls.
- Martini FH, Nath JL, Bartholomew EF. 2015. *Fundamentals of Anatomy & Physiology*. 10<sup>th</sup> edition. Pearson Education: San Francisco.

- Mescher AL. 2018. *Junqueira's Basic Histology Text and Atlas*. 15<sup>th</sup> edition. Mc-Graw Hill Education: New York.
- Mills KT, Bundy JD, Kelly TN, Reed JE, Kearney PM, Reynolds K, Chen J, He J. 2016. Global Disparities of Hypertension Prevalence and Control: A Systematic Analysis of Population-Based Studies from 90 Countries. *Circulation*. 134(6): 441-450.
- Mills KT, Stefanescu A, He J. 2020. The Global Epidemiology of Hypertension. *Nature Reviews Nephrology*. 16(4): 223-237.
- Moes AD, Severs D, Verdonk K, van der Lubbe N, Zietse R, Danser AHJ, Hoorn EJ. 2018. Mycophenolate Mofetil Attenuates DOCA-Salt Hypertension: Effects on Vascular Tone. *Frontiers in Physiology*. 9(578): 1-10.
- National High Blood Pressure Education Program. 2004. *The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure*. National Heart, Lung, and Blood Institute (US): Bethesda.
- Nugrahaningsing DAA, Sholikhah EN, Mustofa M, Yuliani FS, Purwono S, Ngatidjan N. 2019. Blood Pressure Lowering Effect of Polyherbal Preparation Containing *Allium sativum*, *Belericæ fructus*, *Curcuma aeruginosa*, and *Amomi fructus* on Rat Model of Hypertension. *Asian Journal of Pharmaceutical and Clinical Research*. 12(4): 311-314.
- Nugrahaningsih DAA, Yuniyanti MM, Wijayaningsih RA, Hidayati MRN, Purwono S. 2020. Animal Models in Antihypertensive Drug Development Research. *Indonesian Journal of Pharmacology and Therapy*. 1(2): 89-98.
- Nurcholis W, Alfadzrin R, Izzati N, Arianti R, Vinnai BÁ, Sabri F, Kristóf E, Artika IM. 2022. Effects of Methods and Durations of Extraction on Total Flavonoid and Phenolic Contents and Antioxidant Activity of Java

Cardamom (*Amomum compactum* Soland Ex Maton) Fruit. *Plants*. 11(2221): 1-13.

- Nurcholis W, Khumaida N, Syukur M, Bintang M. 2016. Variability of Curcuminoid Content and Lack of Correlation with Cytotoxicity in Ethanolic Extract from 20 Accessions of *Curcuma aeruginosa* RoxB. *Asian Pacific Journal of Tropical Disease*. 6(11): 887-891.
- Oparil S, Acelajado MC, Bakris GL, Berlowitz DR, Cífková R, Dominiczak AF, Grassi G, Jordan J, Poulter NR, Rodgers A, Whelton PK. 2018. Hypertension. *Nature Reviews Disease Primers*. 4(18014): 1-21.
- Osmond JM, Kanagy NL. 2014. Modulation of Hydrogen Sulfide by Vascular Hypoxia. *Hypoxia*. 2: 117-126.
- Patiño-Morales CC, Jaime-Cruz R, Sánchez-Gómez C, Corona JC, Hernández-Cruz EY, Kalinova-Jelezova I, Pedraza-Chaverri J, Maldonado PD, Silva-Islas CA, Salazar-García M. 2022. Antitumor Effects of Natural Compounds Derived from *Allium sativum* on Neuroblastoma: An Overview. *Antioxidants*. 11(1): 48.
- Prada ETA, Castellano I, Sušnik E, Yang Y, Meyer LS, Tetti M, Beuschlein F, Reincke M, Williams TA. 2018. Comparative Genomics and Transcriptome Profiling in Primary Aldosteronism. *International Journal of Molecular Sciences*. 19(4): 1124.
- Pestana-Oliveira N, Nahey DB, Johnson T, Collister JP. 2020. Development of the Deoxycorticosterone Acetate (DOCA)-Salt Hypertensive Rat Model. *Bio-protocol*. 10(15): e3708.
- Pierce GL. 2013. Oral BH<sub>4</sub>: A Novel Remedy for Age-Related Skin Microvascular Impairment during Heat Stress or Fool's Elixir? *Journal of Applied Physiology*. 115: 951-953.
- Polhemus DJ, Lefer D. 2014. Emergence of Hydrogen Sulfide as an Endogenous Gaseous Signaling Molecule in Cardiovascular Disease. *Circulation Research*. 114(4): 730-737.

- Pratiwi WR, Sholikhah EN, Nugrahaningsih DAA, Yuniyanti MM, Mustofa, Purwono S. 2020. Effects of Polyherbal Tablet for Hypertensive Patients. *Traditional Medicine Journal*. 25(3): 188-193.
- Pulido T, Zayas N, de Mendieta MA, Plascencia K, Escobar J. 2016. Medical Therapies for Pulmonary Arterial Hypertension. *Heart Failure Reviews*. 21: 273-283.
- Rahal A, Kumar A, Singh V, Yadav B, Tiwari R, Chakraborty S, Dhama K. 2013. Oxidative Stress, Prooxidants, and Antioxidants: The Interplay. *BioMed Research International*. 2014(761264): 1-19.
- Reckelhoff JF, Cardozo LLY, Fortepiani MLA. Deoxycorticosterone Acetate and Salt Model in Aging Animals. In : *Conn's Handbook of Models for Human Aging*. 2<sup>nd</sup> edition. 2018.
- Ried K, Fakler P. 2014. Potential of Garlic (*Allium sativum*) in Lowering High Blood Pressure: Mechanisms of Action and Clinical Relevance. *Integrated Blood Pressure Control*. 7: 71-82.
- Rodrigo R, Gonzalez J, Paoletto F. 2011. The Role of Oxidative Stress in the Pathophysiology of Hypertension. *Hypertension Research*. 34(4): 431-440.
- Schiffirin EL. 2011. Vascular Remodeling in Hypertension: Mechanisms and Treatment. *Hypertension*. 59(2): 367 - 374.
- Sequeira-Lopez MLS, Gomez RA. 2021. Renin Cells, the Kidney, and Hypertension. *Circulation Research*. 128(7): 887-907.
- Sherwood L. 2013. *Introduction to Human Physiology, International Edition*. 8<sup>th</sup> edition. Brooks/Cole, Cengage Learning: China.
- Shibata S. 2017. 30 Years of the Mineralocorticoid Receptor: Mineralocorticoid Receptor and NaCl Transport Mechanisms in the Renal Distal Nephron. *Journal of Endocrinology*. 234(1): T35-T47
- Sholikhah EN, Mustofa M, Nugrahaningsih DAA, Yuliani FS, Purwono S, Sugiyono S, Widyarini S, Ngatidjan N, Jumina J, Santosa D, Koketsu M.



2020. Acute dan Subchronic Oral Toxicity Study of Polyherbal Formulation Containing *Allium sativum* L., *Terminalia bellirica* (Gaertn.) Roxb., *Curcuma aeruginosa* Roxb., and *Amomum compactum* Sol. ex. Maton in Rats. *BioMed Research International*. 2020 (8609364): 1-18.
- Singh S, Shankar R, Singh GP. 2017. Prevalence and Associated Risk Factors of Hypertension: A Cross-Sectional Study in Urban Varanasi. *International Journal of Hypertension*. 2017(5491838): 1-10.
- Sukandar D, Hermanto S, Amelia ER, Zaenudin M. Aktivitas Antibakteri Ekstrak Biji Kapulaga (*Amomum compactum* Sol. Ex Maton). *JKTI*. 2015; 17(2): 119-129.
- Syed AA, Lahiri S, Mohan D, Valicherla GR, Gupta AP, Riyazuddin M, Kumar S, Maurya R, Hanif K, Gayen JR. 2016. Evaluation of Anti-hypertensive Activity of *Ulmus wallichiana* Extract and Fraction in SHR, DOCA-Salt- and L-NAME-Induced Hypertensive Rats. *Journal of Ethnopharmacology*. 193: 555-565.
- Tanaka M, Kishimoto Y, Sasaki M, Sato A, Kamiya T, Kondo K, Iida K. 2018. *Terminalia bellirica* (Gaertn.) Roxb. Extract and Gallic Acid Attenuate LPS-Induced Inflammation and Oxidative Stress via MAPK/NF- $\kappa$ B and Akt/AMPK/Nrf2 Pathways. *Oxidative Medicine and Cellular Longevity*. 2018(9364364).
- Tinawi M. 2020. Hypokalemia : A Practical Approach to Diagnosis and Treatment. *Archives of Clinical and Biomedical Research*. 4(2): 48-66.
- Tortora GJ, Derrickson B. 2017. *Principles of Anatomy & Physiology*. 15<sup>th</sup> edition. John Wiley & Sons: New Jersey.
- Tostes Passaglia RCA, David FL, Fortes ZB, Nigro D, Scivoletto R, Catelli De Carvalho MH. 2000. Deoxycorticosterone Acetate-Salt Hypertensive Rats Display Gender-Related Differences in ET(B) Receptor-Mediated Vascular Responses. *British Journal of Pharmacology*. 130(5): 1092-1098.

- van Varik BJ, Rennenberg RJMW, Reutelingsperger CP, Kroon AA, de Leeuw PW, Schurgers LJ. 2012. Mechanisms of Arterial Remodeling: Lessons from Genetic Diseases. *Frontiers in Genetics*. 3(290): 1-10.
- Ward MR, Pasterkamp G, Yeung AC, Borst C. 2000. Arterial Remodeling: Mechanisms and Clinical Implications. *Circulation*. 102(10): 1186–1191.
- World Health Organization (WHO). 2023. *Hypertension*. Available at: <https://www.who.int/news-room/fact-sheets/detail/hypertension>.
- Zhu C, Liu Q, Li X, Wei R, Ge T, Zheng X, Li B, Liu K, Cui R. 2022. Hydrogen Sulfide: A New Therapeutic Target in Vascular Diseases. *Frontiers in Endocrinology*. 13: 934231.