

DAFTAR PUSTAKA

- Aranow, C., 2011. Vitamin D and the Immune System. *Journal of Investigative Medicine*, 59(6), pp.881-886.
- Berridge, M., 2016. Vitamin D, reactive oxygen species and calcium signalling in ageing and disease. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 371(1700), p.20150434.
- Bobulescu, I. and Moe, O., 2012. Renal Transport of Uric Acid: Evolving Concepts and Uncertainties. *Advances in Chronic Kidney Disease*, 19(6), pp.358-371.
- Brunton, L., Hilal-Dandan, R. and Knollmann, B., 2018. *Goodman & Gilman's The Pharmacological Basis Of Therapeutics*. 13th ed. New York: McGraw-Hill.
- Chen, C., Lü, J. and Yao, Q., 2016. Hyperuricemia-Related Diseases and Xanthine Oxidoreductase (XOR) Inhibitors: An Overview. *Medical Science Monitor*, 22, pp.2501-2512.
- Chen, L., Han, S., Liu, F., Chen, S., Chen, X. and Chen, H., 2020. Prevalence of hyperuricemia in adolescents from 2000 to 2019 in Asia: A meta-analysis. *Europe PMC*.
- Chen, S., Sims, G.P., Chen, X.X., Gu, Y.Y., Chen, S., and Lipsky P.E., 2007. Modulatory effects of 1,25-dihydroxyvitamin D3 on human B cell differentiation. *J Immunol.* 1;179(3), pp.1634-47.
- Chistiakov, D., Killingsworth, M., Myasoedova, V., Orekhov,, A.N., Bobryshev, Y. V., 2017. CD68/macrosialin: not just a histochemical marker. *Lab Invest* 97, pp.4–13.
- Cohen-Lahav, M., Shany, S., Tobvin, D., Chaimovitz, C. and Douvdevani, A., 2006. Vitamin D decreases NF κ B activity by increasing I κ B α levels. *Nephrology Dialysis Transplantation*, 21(4), pp.889-897.
- de Haan, J. J., Smeets, M. B., Pasterkamp, G. and Arslan, F., 2013. Danger Signals in the Initiation of the Inflammatory Response after Myocardial Infarction. *Mediators of Inflammation*, 2013, pp.1-13.
- Deshmane, S. L., Kremlev, S., Amini, S., Sawaya, B. E., 2009. Monocyte chemoattractant protein-1 (MCP-1): an overview. *Journal of Interferon & Cytokine Research*, 29(6), pp.313-326.
- Ding, C., Wilding, J. and Bing, C., 2013. 1,25-dihydroxyvitamin D3 Protects against Macrophage-Induced Activation of NF κ B and MAPK Signalling and Chemokine Release in Human Adipocytes. *PLoS ONE*, 8(4), p.e61707.
- Dorrington, M. and Fraser, I., 2019. NF- κ B Signaling in Macrophages: Dynamics, Crosstalk, and Signal Integration. *Frontiers in Immunology*, 10, pp.1-12.
- El Ridi, R. and Tallima, H., 2017. Physiological functions and pathogenic potential of uric acid: A review. *Journal of Advanced Research*, 8(5), pp.487-493.
- Galassi, F. and Borghi, C., 2015. A brief history of uric acid: From gout to cardiovascular risk factor. *European Journal of Internal Medicine*, 26(5), p.373.



- Gio, P., U. and Caraka, R., E., 2018. Pedoman dasar mengolah data dengan program aplikasi statistika STATCAL (disertai perbandingan hasil dengan SPSS dan Minitab). Medan: USUPress, pp.215-218.
- Gordon, J., Shaw, J. and Kirshenbaum, L., 2011. Multiple Facets of NF- κ B in the Heart. *Circulation Research*, 108(9), pp.1122-1132.
- Grassi, D., Desideri, G. and Ferri, C., 2014. New Insight into Urate-Related Mechanism of Cardiovascular Damage. *Current Pharmaceutical Design*, 20(39), pp.6089-6095.
- Green, T., Skeaff, C., Rockell, J., Venn, B., Lambert, A., Todd, J., Khor, G., Loh, S., Muslimatun, S., Agustina, R. and Whiting, S., 2007. Vitamin D status and its association with parathyroid hormone concentrations in women of child-bearing age living in Jakarta and Kuala Lumpur. *European Journal of Clinical Nutrition*, 62(3), pp.373-378.
- Hamid, T., Guo, S., Kingery, J., Xiang, X., Dawn, B. and Prabhu, S., 2010. Cardiomyocyte NF- κ B p65 promotes adverse remodelling, apoptosis, and endoplasmic reticulum stress in heart failure. *Cardiovascular Research*, 89(1), pp.129-138.
- Hansdottir, S., Monick, M., Lovan, N., Powers, L., Gerke, A. and Hunninghake, G., 2009. Vitamin D Decreases Respiratory Syncytial Virus Induction of NF- κ B-Linked Chemokines and Cytokines in Airway Epithelium While Maintaining the Antiviral State. *The Journal of Immunology*, 184(2), pp.965-974.
- Haryono, A., Nugrahaningsih, D., A., A., Sari, D., C., R., Romi, M., M., Arfian, N., 2018. Reduction of serum uric acid associated with attenuation of renal injury, inflammation, and macrophages M1/M2 ratio in hyperuricemic mice model. *Kobe Journal of Medical Sciences*, 65(3), pp.E107-E114.
- Holick, M., Binkley, N., Bischoff-Ferrari, H., Gordon, C., Hanley, D., Heaney, R., Murad, M. and Weaver, C., 2011. Evaluation, Treatment, and Prevention of Vitamin D Deficiency: an Endocrine Society Clinical Practice Guideline. *The Journal of Clinical Endocrinology & Metabolism*, 96(7), pp.1911-1930.
- Jin, M., Yang, F., Yang, I., Yin, Y., Luo, J., Wang, H. and Yang, X., 2012. Uric acid, hyperuricemia and vascular diseases. *Frontiers in Bioscience*, 17(1), p.656.
- Judd, S. and Tangpricha, V., 2009. Vitamin D Deficiency and Risk for Cardiovascular Disease. *The American Journal of the Medical Sciences*, 338(1), pp.40-44.
- Judistiani, R., Nirmala, S., Rahmawati, M., Ghrahani, R., Natalia, Y., Sugianli, A., Indrati, A., Suwarsa, O. and Setiabudiawan, B., 2019. Optimizing ultraviolet B radiation exposure to prevent vitamin D deficiency among pregnant women in the tropical zone: report from cohort study on vitamin D status and its impact during pregnancy in Indonesia. *BMC Pregnancy and Childbirth*, 19(1), pp.1-9.
- Kanellis, J., Watanabe, S., Li, J., Kang, D., Li, P., Nakagawa, T., Wamsley, A., Sheikh-Hamad, D., Lan, H., Feng, L. and Johnson, R., 2003. Uric Acid Stimulates Monocyte Chemoattractant Protein-1 Production in Vascular Smooth Muscle Cells Via Mitogen-Activated Protein Kinase and Cyclooxygenase-2. *Hypertension*, 41(6), pp.1287-1293.



- Kushiyama, A., Nakatsu, Y., Matsunaga, Y., Yamamotoya, T., Mori, K., Ueda, K., Inoue, Y., Sakoda, H., Fujishiro, M., Ono, H. and Asano, T., 2016. Role of Uric Acid Metabolism-Related Inflammation in the Pathogenesis of Metabolic Syndrome Components Such as Atherosclerosis and Nonalcoholic Steatohepatitis. *Mediators of Inflammation*, 2016, pp.1-15.
- Li, L., Zhang, Y. and Zeng, C., 2020. Update on the epidemiology, genetics, and therapeutic options of hyperuricemia. *American Journal of Translational Research*, 12(7), pp.3167–3181.
- Liu, T., Zhang, L., Joo, D. and Sun, S., 2017. NF-κB signaling in inflammation. *Signal Transduction and Targeted Therapy*, 2(1), pp.1-9.
- Lu, W., Xu, Y., Shao, X., Gao, F., Li, Y., Hu, J., Zuo, Z., Shao, X., Zhou, L., Zhao, Y. and Cen, X., 2015. Uric Acid Produces an Inflammatory Response through Activation of NF-κB in the Hypothalamus: Implications for the Pathogenesis of Metabolic Disorders. *Scientific Reports*, 5(1), pp.1-15.
- Maiuolo, J., Oppedisano, F., Gratteri, S., Muscoli, C. and Mollace, V., 2016. Regulation of uric acid metabolism and excretion. *International Journal of Cardiology*, 213, pp.8-14.
- Manson, J., Bassuk, S., Lee, I., Cook, N., Albert, M., Gordon, D., Zaharris, E., MacFadyen, J., Danielson, E., Lin, J., Zhang, S. and Buring, J., 2012. The VITamin D and OmegA-3 TriaL (VITAL): Rationale and design of a large randomized controlled trial of vitamin D and marine omega-3 fatty acid supplements for the primary prevention of cancer and cardiovascular disease. *Contemporary Clinical Trials*, 33(1), pp.159-171.
- Mescher, A. and Junqueira, L., 2017. *Junqueira's Basic Histology*. 13th ed. New York (NY): McGraw-Hill Education.
- Misra, A., Haudek, S., Knuefermann, P., Vallejo, J., Chen, Z., Michael, L., Sivasubramanian, N., Olson, E., Entman, M. and Mann, D., 2003. Nuclear Factor-κB Protects the Adult Cardiac Myocyte Against Ischemia-Induced Apoptosis in a Murine Model of Acute Myocardial Infarction. *Circulation*, 108(25), pp.3075-3078.
- Mozos, I. and Marginean, O., 2015. Links between Vitamin D Deficiency and Cardiovascular Diseases. *BioMed Research International*, 2015, pp.1-12.
- Nair, R. and Maseeh, A., 2012. Vitamin D: The “sunshine” vitamin. *Journal of Pharmacology and Pharmacotherapeutics*, 3(2), pp.118-126.
- Nishino, T., Okamoto, K., Eger, B., Pai, E. and Nishino, T., 2008. Mammalian xanthine oxidoreductase - mechanism of transition from xanthine dehydrogenase to xanthine oxidase. *FEBS Journal*, 275(13), pp.3278-3289.
- Niu, J. and Kolattukudy, P., 2009. Role of MCP-1 in cardiovascular disease: molecular mechanisms and clinical implications. *Clinical Science*, 117(3), pp.95-109.
- Nonn, L., Peng, L., Feldman, D. and Peehl, D., 2006. Inhibition of p38 by Vitamin D Reduces Interleukin-6 Production in Normal Prostate Cells via Mitogen-Activated Protein Kinase Phosphatase 5: Implications for Prostate Cancer Prevention by Vitamin D. *Cancer Research*, 66(8), pp.4516-4524.



- Perez-Ruiz, F. and Becker, M.A., 2015. Inflammation: a possible mechanism for a causative role of hyperuricemia/gout in cardiovascular disease. *Current Medical Research and Opinion*, 31(sup2), pp.9-14.
- Rahimi-Sakak, F., Maroofi, M., Rahmani, J., Bellissimo, N. and Hekmatdoost, A., 2019. Serum uric acid and risk of cardiovascular mortality: a systematic review and dose-response meta-analysis of cohort studies of over a million participants. *BMC Cardiovascular Disorders*, 19(1), pp.1-8.
- Romi, M., Arfian, N., Tranggono, U., Setyaningsih, W. and Sari, D., 2017. Uric acid causes kidney injury through inducing fibroblast expansion, Endothelin-1 expression, and inflammation. *BMC Nephrology*, 18(1), pp.1-8.
- Ruparelia, N., Chai, J., Fisher, E. and Choudhury, R., 2016. Inflammatory processes in cardiovascular disease: a route to targeted therapies. *Nature Reviews Cardiology*, 14(3), pp.133-144.
- Shi, Y., Evans, J. and Rock, K., 2003. Molecular identification of a danger signal that alerts the immune system to dying cells. *Nature*, 425(6957), pp.516-521.
- So, A. and Thorens, B., 2010. Uric acid transport and disease. *Journal of Clinical Investigation*, 120(6), pp.1791-1799.
- Spiga, R., Marini, M., Mancuso, E., Di Fatta, C., Fuoco, A., Perticone, F., Andreozzi, F., Mannino, G. and Sesti, G., 2017. Uric Acid Is Associated With Inflammatory Biomarkers and Induces Inflammation Via Activating the NF- κ B Signaling Pathway in HepG2 Cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 37(6), pp.1241-1249.
- Tortora, G. J., Derrickson, B., Burkett, B., Dye, D., Cooke, J., Diversi, T., McKean, M., Mellifont, R., Samalia, L. and People, G., 2016. *Principles Of Anatomy & Physiology First Asia-Pacific Edition*. 1st ed. New York: John Wiley & Sons Australia.
- Wang, X., 2012. IRF3 Is A Critical Regulator Of Adipose Glucose And Energy Homeostasis, pp.41-44.
- Wineski, L., 2019. *Snell's Clinical Anatomy By Regions*. 10th ed. Philadelphia, PA: Lippincott Williams and Wilkins.
- Yang, C., Murti, A. and Pfeffer, L., 2005. Interferon Induces NF- κ B-inducing Kinase/Tumor Necrosis Factor Receptor-associated Factor-dependent NF- κ B Activation to Promote Cell Survival. *Journal of Biological Chemistry*, 280(36), pp.31530-31536.
- Yu, L. and Feng, Z., 2018. The Role of Toll-Like Receptor Signaling in the Progression of Heart Failure. *Mediators of Inflammation*, 2018, pp.1-11.
- Zhou, Y., Fang, L., Jiang, L., Wen, P., Cao, H., He, W., Dai, C. and Yang, J., 2012. Uric Acid Induces Renal Inflammation via Activating Tubular NF- κ B Signaling Pathway. *PLOS ONE*, 7(6), pp.1-10.