

DAFTAR PUSTAKA

- de Bragança, A.C., Volpini, R.A., Mehrotra, P., Andrade, L., Basile, D.P., 2016. Vitamin D deficiency contributes to vascular damage in sustained ischemic acute kidney injury. *Physiol. Rep.* 4(13):e12829.
- Amiri, F., Virdis, A., Neves, M.F., Iglarz, M., Seidah, N.G., Touyz, R.M., *et al.*, 2004. Endothelium-restricted overexpression of human endothelin-1 causes vascular remodeling and endothelial dysfunction. *Circulation* 110(15):2233–2240.
- Arfian, N., Budiharjo, S., Wibisono, D.P., Setyaningsih, W., Romi, M.M., Saputri, R., *et al.*, 2019. Vitamin D Ameliorates Kidney Ischemia Reperfusion Injury via Reduction of Inflammation and Myofibroblast Expansion. *Kobe. J. Med. Sci.* 65(4):E138–E143.
- Arfian, N., Kusuma, M.H., Anggorowati, N., Nugroho, D.B., Jeffilano, A., Suzuki, Y., *et al.*, 2018. Vitamin D upregulates endothelin-1, ETBR, eNOS mRNA expression and attenuates vascular remodelling and ischemia in kidney fibrosis model in mice. *Physiol. Res.* 67 Suppl 1:S137–S147.
- Arfian, N., Muflikhah, K., Soeyono, S.K., Sari, D.C., Tranggono, U., Anggorowati, N., *et al.*, 2016. Vitamin D Attenuates Kidney Fibrosis via Reducing Fibroblast Expansion, Inflammation, and Epithelial Cell Apoptosis. *Kobe. J. Med. Sci.* 62(2):E38–E44.
- Arfian, N., Emoto, N., Vignon-Zellweger, N., Nakayama, K., Yagi, K., Hirata, K., 2012. ET-1 deletion from endothelial cells protects the kidney during the extension phase of ischemia/reperfusion injury. *Biochem. Biophys. Res. Commun.* 425(2):443–449.
- Azak, A., Huddam, B., Haberal, N., Koçak, G., Ortabozkoyun, L., Şenes, M., *et al.*, 2013. Effect of novel vitamin D receptor activator paricalcitol on renal ischaemia/reperfusion injury in rats. *Ann. R. Coll. Surg. Engl.* 95(7):489–494.
- Bakker, E.N., Buus, C.L., VanBavel, E., Mulvany, M.J., 2004. Activation of resistance arteries with endothelin-1: from vasoconstriction to functional adaptation and remodeling. *J. Vasc. Res.* 41(2):174–182.
- Basile, D.P., Friedrich, J.L., Spahic, J., Knipe, N., Mang, H., Leonard, E.C., *et al.*, 2011. Impaired endothelial proliferation and mesenchymal transition contribute to vascular rarefaction following acute kidney injury. *Am. J. Physiol. Renal. Physiol.* 300(3):F721–F733.
- Basile, D.P., Yoder, M.C., 2014. Renal endothelial dysfunction in acute kidney ischemia reperfusion injury. *Cardiovasc. Hematol. Disord. Drug. Targets.* 14(1):3–14.
- Baylis, C., 2006. Arginine, arginine analogs and nitric oxide production in chronic kidney disease. *Nat. Clin. Pract. Nephrol.* 2(4):209–220.
- Bonventre, J.V., Yang, L., 2011. Cellular pathophysiology of ischemic acute kidney injury. *J. Clin. Invest.* 121(11):4210–4221.
- Bourque, S.L., Davidge, S.T., Adams, M.A., 2011. The interaction between endothelin-1 and nitric oxide in the vasculature: new perspectives. *Am. J. Physiol. Regul. Integr. Comp. Physiol.* 300(6):R1288–R1295.
- Cowled, P., Fitridge, R., 2011. Pathophysiology of Reperfusion Injury. In: R., Fitridge, M., Thompson (Ed.): *Mechanisms of Vascular Disease: A Reference Book for Vascular Specialists* [Internet]. Adelaide (AU): University of

Adelaide Press:18. Available from: URL:
<https://www.ncbi.nlm.nih.gov/books/NBK534267/>

- De Miguel, C., Speed, J.S., Kasztan, M., Gohar, E.Y., Pollock, D.M., 2016. Endothelin-1 and the kidney: new perspectives and recent findings. *Curr. Opin. Nephrol. Hypertens.* 25(1):35–41.
- Dhaun, N., Webb, D.J., 2013. The road from AKI to CKD: the role of endothelin. *Kidney. Int.* 84(4):637–638.
- Dong, J., Wong, S.I., Lau, C.W., Liu, J., Wang, Y., He, Z.D., et al., 2013. Calcitriol restores renovascular function in estrogen-deficient rats through downregulation of cyclooxygenase-2 and the thromboxane-prostanoid receptor. *Kidney. Int.* 84:54-63.
- Doorenbos, C.R., van den Born, J., Navis, G., de Borst, M.H., 2009. Possible renoprotection by vitamin D in chronic renal disease: beyond mineral metabolism. *Nat. Rev. Nephrol.* 5(12):691–700.
- Dussaule, J.C., Tharaux, P.L., Boffa, J.J., Fakhouri, F., Ardaillou, R., Chatziantoniou, C., 2000. Mechanisms mediating the renal profibrotic actions of vasoactive peptides in transgenic mice. *J. Am. Soc. Nephrol.* 11 Suppl 16:S124–S128.
- Dusso, A.S., Brown, A.J., Slatopolsky, E., 2005. Vitamin D. *Am. J. Physiol. Renal. Physiol.* 289: F8–F28.
- Eroschenko, V.P., 2008. *Di Fiore's Atlas of Histology with Functional Correlations*. 11th ed. Lippincott Williams and Wilkins, Philadelphia.
- Feng, J., Hu, W., Feng, C., Mao, X., Jin, K., Ye, Y., 2015. Increasing Proliferation of Intrinsic Tubular Cells after Renal Ischemia-reperfusion Injury in Adult Rat. *Aging. Dis.* 6(4):228–235.
- Fiorentino, M., Grandaliano, G., Gesualdo, L., Castellano, G., 2018. Acute Kidney Injury to Chronic Kidney Disease Transition. *Contrib. Nephrol.* 193:45-54.
- Gibbons, G.H., Dzau, V.J., 1994. The emerging concept of vascular remodeling. *N. Engl. J. Med.* 330(20):1431–1438.
- Gonçalves, J.G., de Bragança, A.C., Canale, D., Shimizu, M.H., Sanches, T.R., Moysés, R.M., et al., 2014. Vitamin D deficiency aggravates chronic kidney disease progression after ischemic acute kidney injury. *PloS One* 9(9):e107228.
- Hall, J.E., Hall, M.E., 2021. *Guyton and Hall Textbook of Medical Physiology*. 14th ed. Elsevier, Philadelphia.
- Hoste, E., Kellum, J.A., Selby, N.M., Zarbock, A., Palevsky, P.M., Bagshaw, S.M., et al., 2018. Global epidemiology and outcomes of acute kidney injury. *Nat. Rev. Nephrol.* 14(10):607–625.
- Intengan, H.D., Schiffrin, E.L., 2001. Vascular remodeling in hypertension: roles of apoptosis, inflammation, and fibrosis. *Hypertension* 38(3 Pt 2):581–587.
- Intengan, H.D., Schiffrin, E.L., 2000. Structure and mechanical properties of resistance arteries in hypertension: role of adhesion molecules and extracellular matrix determinants. *Hypertension* 36(3):312–318.
- Ito, I., Waku, T., Aoki, M., Abe, R., Nagai, Y., Watanabe, T., et al., 2013. A nonclassical vitamin D receptor pathway suppresses renal fibrosis. *J. Clin. Invest.* 123(11):4579–4594.
- Jean, G., Souberbielle, J.C., Chazot, C., 2017. Vitamin D in Chronic Kidney Disease and Dialysis Patients. *Nutrients* 9(4):328.

- Kassi, E., Adamopoulos, C., Basdra, E.K., Papavassiliou, A.G., 2013. Role of Vitamin D in Atherosclerosis. *Circulation*. 128:2517-2531.
- Kaur, G., Singh, J., Kumar, J., 2019. Vitamin D and cardiovascular disease in chronic kidney disease. *Pediatr. Nephrol.* 34(12):2509–2522.
- Kohan, D.E., Inscho, E.W., Wesson, D., Pollock, D.M., 2011. Physiology of endothelin and the kidney. *Compr. Physiol.* 1(2):883–919.
- Kohan, D.E., Barton, M., 2014. Endothelin and endothelin antagonists in chronic kidney disease. *Kidney. Int.* 86(5):896–904.
- Li, J., Xu, S., Zhu, J.B., Song, J., Luo, B., Song, Y.P., *et al.*, 2019. Pretreatment with Cholecalciferol Alleviates Renal Cellular Stress Response during Ischemia/Reperfusion-Induced Acute Kidney Injury. *Oxid. Med. Cell. Longev.* 1897316.
- Martínez-Miguel, P., Valdivielso, J.M., Medrano-Andrés, D., Román-García, P., Cano-Peñalver, J.L., Rodríguez-Puyol, M., *et al.*, 2014. The active form of vitamin D, calcitriol, induces a complex dual upregulation of endothelin and nitric oxide in cultured endothelial cells. *Am. J. Physiol. Endocrinol. Metab.* 307: E1085–E1096.
- Mescher, A.L., 2016. *Junqueira's Basic Histology Text and Atlas*. 14th ed. McGraw-Hill Education, New York.
- Molinari, C., Uberti, F., Grossini, E., Vacca, G., Carda, S, Invernizzi, M., *et al.*, 2011. 1 α ,25-Dihydroxycholecalciferol Induces Nitric Oxide Production in Cultured Endothelial Cells. *Cell. Physiol. Biochem.* 27:661-668.
- Mulvany, M.J., 2002. Small artery remodeling in hypertension. *Curr. Hypertens. Rep.* 4(1):49–55.
- Nakayama, T., Sato, W., Kosugi, T., Zhang, L., Campbell-Thompson, M., Yoshimura, A., *et al.*, 2009. Endothelial injury due to eNOS deficiency accelerates the progression of chronic renal disease in the mouse. *Am. J. Physiol. Renal. Physiol.* 296(2):F317–F327.
- Neuen, B.L., Chadban, S.J., Demaio, A.R., Johnson, D.W., Perkovic, V., 2017. Chronic kidney disease and the global NCDs agenda. *BMJ. Glob. Health.* 2(2):e000380.
- Quaschnig, T., Koçak, S., Bauer, C., Neumayer, H.H., Galle, J., Hocher, B., 2003. Increase in nitric oxide bioavailability improves endothelial function in endothelin-1 transgenic mice. *Nephrol. Dial. Transplant.* 18(3):479–483.
- Raoch, V., Rodríguez-Pascual, F., López-Martínez, V, Medrano-Andrés, D., Rodríguez-Puyol, M., Lamas, S., *et al.*, 2011. Nitric Oxide Decreases the Expression of Endothelin-Converting Enzyme-1 Through mRNA Destabilization. *Arterioscler. Thromb. Vasc. Biol.* 31:2577-2585
- Rewa, O., Bagshaw, S.M., 2014. Acute kidney injury-epidemiology, outcomes and economics. *Nat. Rev. Nephrol.* 10(4):193–207.
- Sari, D., Putri, M.W., Leksono, T.P., Chairunnisa, N., Reynaldi, G.N., Simanjuntak, B.C., *et al.*, 2019. Calcitriol Ameliorates Kidney Injury Through Reducing Podocytopathy, Tubular Injury, Inflammation and Fibrosis in 5/6 Subtotal Nephrectomy Model in Rats. *Kobe. J. Med. Sci.* 65(5):E153–E163.
- Strausser, S.A., Nakano, D., Souma, T., 2018. Acute kidney injury to chronic kidney disease transition: insufficient cellular stress response. *Curr. Opin. Nephrol. Hypertens.* 27(4):314–322.
- Susantitaphong, P., Cruz, D.N., Cerda, J., Abulfaraj, M., Alqahtani, F., Koulouridis,

- I., *et al.*, 2013. World incidence of AKI: a meta-analysis. *Clin. J. Am. Soc. Nephrol.* 8(9):1482–1493.
- Sutton, T.A., Fisher, C.J., Molitoris, B.A., 2002. Microvascular endothelial injury and dysfunction during ischemic acute renal failure. *Kidney. Int.* 62(5):1539–1549.
- Tortora, G.J., Derrickson, B.H., 2017. *Principles of Anatomy and Physiology*. 15th ed. John Wiley & Sons, Inc, New Jersey.
- Yanagisawa, M., Kurihara, H., Kimura, S., Tomobe, Y., Kobayashi, M., Mitsui, Y., *et al.*, 1988. A novel potent vasoconstrictor peptide produced by vascular endothelial cells. *Nature* 332(6163):411–415.
- Zager, R.A., Johnson, A.C., Andress, D., Becker, K., 2013. Progressive endothelin-1 gene activation initiates chronic/end-stage renal disease following experimental ischemic/reperfusion injury. *Kidney. Int.* 84(4):703–712.