

Daftar Pustaka

- Abugoukh, T. M., Sharaby, A., Elshaikh, A. O., Joda, M., Madni, A., Ahmed, I. *et al.* 2022. Does Vitamin D Have a Role in Diabetes? *Cureus*, 14(10).
- Ahmed, O. G., Eliwa, K. A. A., Toghan, R., Fadel, S. A. M., Zaki, S. M. 2023. 'Vitamin D mitigates hippocampus apoptosis induced by diabetes'. *SVU-International Journal of Medical Sciences*, 6(2), pp. 586-596.
- American Diabetes Association. 2021. Classification and Diagnosis of Diabetes: Standards of Medical Care in Diabetes. *Diabetes Care*, 44 (Supplement_1), pp. 15-33.
- 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.
- Asmat, U., Abad, K., Ismail, K. 2016. Diabetes mellitus and oxidative stress—A concise review. *Saudi Pharmaceutical Journal*, 24, pp. 547–553.
- Banday, M. Z., Sameer, A. S., Nissar, S. 2013. Pathophysiology of diabetes: An overview. *Avicenna J Med*, 10(4), pp. 174-188.
- Bhan, S., Mitra, R., Arya, A. K., Pandey, H. P., Tripathi, K. 2013. A study on evaluation of apoptosis and expression of bcl-2-related marker in wound healing of streptozotocin-induced diabetic rats. *ISRN Dermatol*.
- CDC. 2022. The effects of diabetes on the brain. Centers for Disease Control and Prevention. Available at: www.cdc.gov/diabetes/library/features/diabetes-and-your-brain.html.
- Chauhan, P., Jethwa, K., Rathawa, A., Chauhan, G., Mehra, S. 2021. *The Anatomy of the Hippocampus. In: Pluta R, editor. Cerebral Ischemia*. Brisbane (AU): Exon Publications.
- Cipollone, F., Chiarelli, F., Iezzi, A., Fazia, M. L., Cuccurullo, C., Pini, B. *et al.* 2005. Relationship between reduced BCL-2 expression in circulating mononuclear cells and early nephropathy in type 1 diabetes. *Int J Immunopathol Pharmacol*, 18(4):625-635.
- Demircan, S., Onalan, E., Kuloğlu, T., Aydın, S., Yalçın, M. H., Gözel, N. *et al.* 2020. Effects of vitamin D on apoptosis and betatrophin in the kidney tissue of experimental diabetic rats. *Acta Biomed*, 91(4).
- Demirtas, L., Guclu, A., Erdur, F. M., Akbas, E. M., Ozcicek, A., Onk, D. *et al.* 2016. Apoptosis, autophagy & endoplasmic reticulum stress in diabetes mellitus. *Indian J Med Res*, 144(4), pp. 515-524.
- Fajarwati, I., Solihin, D. D., Wresdiyati, T., Batubara, I. 2023. Self-recovery in diabetic Sprague Dawley rats induced by intraperitoneal alloxan and streptozotocin. *Heliyon*.
- Feldman, E. L., Callaghan, B. C., Pop-Busui, R., Zochodne, D. W., Wright, D. E., Bennett, D. L. *et al.* 2019. Diabetic neuropathy. *Nat Rev Dis Primers*, 5(1), pp.41.
- Fiorentino, T. V., Prioletta, A., Zuo, P., Folli, F. 2013. Hyperglycemia-induced oxidative stress and its role in diabetes mellitus related cardiovascular diseases. *Curr Pharm* 19(32):5695-5703.

- Flynn, J. M., Melov, S. 2013. SOD2 in mitochondrial dysfunction and neurodegeneration. *Free Radic Biol Med*, 62, pp. 4-12.
- Fogwe, L. A., Reddy, V., Mesfin, F. B. 2022. Neuroanatomy, Hippocampus. In: StatPearls. StatPearls Publishing, Treasure Island (FL).
- Furman, B. L. 2021. Streptozotocin-induced diabetic models in mice and rats. *Current Protocols*, 1(4), pp. 1–2.
- Ghasemi, A., Jeddi, S. 2023. Streptozotocin as a tool for induction of rat models of diabetes: a practical guide. *EXCLI J.*, 21(22), pp. 274-294.
- González, P., Lozano, P., Ros, G., Solano, F. 2023. Hyperglycemia and Oxidative Stress: An Integral, Updated and Critical Overview of Their Metabolic Interconnections. *Int J Mol Sci*, 24(11), pp. 9352.
- Guo, F., Yue, H., Wang, L., Ding, C., Wu, L., Wu, Y. *et al.* 2017. Vitamin D supplement ameliorates hippocampal metabolism in diabetic rats. *Biochem Biophys Res Commun*, 490(2), pp. 239-246.
- Ho, N., Sommers, M. S., Lucki, I. 2013. Effects of diabetes on hippocampal neurogenesis: links to cognition and depression. *Neurosci Biobehav Rev*, 37(8), pp. 1346-1362.
- IDF. 2023. Diabetes basics. International Diabetes Federation. Available at: www.idf.org/about-diabetes/what-is-diabetes/
- Jeremy, M., Gurusubramanian, G., Roy, V. K. 2019. Vitamin D3 regulates apoptosis and proliferation in the testis of D-galactose-induced aged rat model. *Sci Rep*, 9(1), pp. 64-75.
- Kemkes. 2021. Pola Hidup Sehat dan Deteksi Dini Bantu Kontrol Gula Darah Pada Penderita Diabetes. Kementerian Kesehatan republik Indonesia. Available at: www.kemkes.go.id/id/rilis-kesehatan/pola-hidup-sehat-dan-deteksi-dini-bantu-kontrol-gula-darah-pada-penderita-diabetes
- Kim, D. H., Meza, C. A., Clarke, H., Kim, J. S., Hickner, R. C. 2020. Vitamin D and Endothelial Function. *Nutrients*, 12(2), pp. 1-17.
- Kottaisamy, C. P. D., Raj, D. S., Prasanth, K. V., Sankaran, U. 2021. Experimental animal models for diabetes and its related complications-a review. *Lab Anim Res*, 37(1), pp. 23.
- Luna, R., Talanki, M. R., Bollu, B., Jhaveri, S., Avanthika, C., Reddy, N. *et al.* 2021. A Comprehensive Review of Neuronal Changes in Diabetics. *Cureus*, 13(10).
- Marino, F., Salerno, N., Scalise, M., Salerno, L., Torella, A., Molinaro, C. *et al.* 2023. Streptozotocin-Induced Type 1 and 2 Diabetes Mellitus Mouse Models Show Different Functional, Cellular and Molecular Patterns of Diabetic Cardiomyopathy. *Int J Mol Sci*, 24(2), pp. 11-16.
- Michael, J. B. 2017. Vitamin D deficiency and diabetes. *Biochem J*, 474(8), pp. 1321-1332.
- Mohd, G. N., Giribabu, N., Salleh, N. 2022. Mechanisms Linking Vitamin D Deficiency to Impaired Metabolism: An Overview. *Int J Endocrinol*.
- Muriach, M., Flores-Bellver, M., Romero, F. J., Barcia, J. M. 2014. Diabetes and the brain: oxidative stress, inflammation, and autophagy. *Oxid Med Cell Longev*, pp.1-9

- Nadimi, H., Djazayery, A., Javanbakht, M. H., Dehpour, A., Ghaedi, E., Derakhshanian, H. *et al.* 2020. Effect of vitamin D supplementation on CREB-TrkB-BDNF pathway in the hippocampus of diabetic rats. *Iran J Basic Med Sci*, 23(1), 117-123.
- NIH. 2022. Vitamin D, Fact Sheet for Health Professionals. NIH Office of Dietary Supplements. Available at: www.ods.od.nih.gov/factsheets/VitaminD-HealthProfessional/
- PERKENI. 2021. Pedoman Pengelolaan dan Pencegahan Diabetes Mellitus Tipe 2 Di Indonesia. PB. PERKENI.
- PERKENI. 2021. Pedoman Pemantauan Glukosa Darah Mandiri. PB. PERKENI.
- Podestà, F., Romeo, G., Liu, W. H., Krajewski, S., Reed, J. C., Gerhardinger, C. *et al.* 2000. Bax is increased in the retina of diabetic subjects and is associated with pericyte apoptosis in vivo and in vitro. *Am J Pathol*, 156(3), pp. 1025-32.
- Ren, B. C., Zhang, Y. F., Liu, S. S., Cheng, X. J., Yang, X., Cui, X. G. *et al.* 2020. Curcumin alleviates oxidative stress and inhibits apoptosis in diabetic cardiomyopathy via Sirt1-Foxo1 and PI3K-Akt signalling pathways. *J Cell Mol Med*, 24(21), pp. 12355-12367.
- Romi, M. M., Arfian, N., Setyaningsih, W. A., Perdana, P. R. G., Juffrie, M., Ratna Sari, D. C. 2021. Calcitriol Treatment Attenuates Uric Acid-Induced Kidney Injury via Super Oxide Dismutase-1 (SOD-1) Upregulation and Fibrosis Reduction. *Iran Biomed J*, 25(6), pp. 417-425.
- Ross, A. C., Taylor, C. L., Yaktine, A. L., Valle, H. B., editors. 2011. Dietary Reference Intakes for Calcium and Vitamin D. Washington (DC): National Academies Press (US), Chapter 3.
- Sadeghi, A., Hami, J., Razavi, S., Esfandiary, E., Hejazi, Z. 2016. The Effect of Diabetes Mellitus on Apoptosis in Hippocampus: Cellular and Molecular Aspects. *Int J Prev Med*, 7(57), pp.1-9.
- Sala, F. A., Wright, G. S. A., Antonyuk, S. V., Garratt, R. C., Hasnain, S. S. 2019. Molecular recognition and maturation of SOD1 by its evolutionarily destabilised cognate chaperone hCCS. *PLoS Biol*, 17(2), e3000141.
- Sapra, A., Bhandari, P. 2022. Diabetes Mellitus. In: StatPearls. StatPearls Publishing, Treasure Island (FL).
- Setyaningsih, M., Meliala, A., Cempaka, R. and Arfian, N., 2022. Chlorogenic Acid Ameliorates Liver Function in Association with Bax Downregulation, P53 Downregulation and Bcl-2 Upregulation in Diabetic Wistar Rat. In *BIO Web of Conferences* (Vol. 49, p. 03004). EDP Sciences.
- Sun, L. J., Hou, X. H., Xue, S. H., Yan, F., Dai, Y. J., Zhao, C. H., Wang, F., Yang, R. H. 2014. Fish oil modulates glycogen synthase kinase-3 signaling pathway in diabetes-induced hippocampal neurons apoptosis. *Brain Res*, pp. 37-49.
- Szymczak-Pajor, I., Śliwińska, A. 2019. Analysis of Association between Vitamin D Deficiency and Insulin Resistance. *Nutrients*, 11(4), pp. 794.
- Teresa, M., Keith, C. 2011. Vitamin D and Diabetes. *Diabetes Spectr*, 24 (2), pp. 113-118.

- Vafei-Nezhad, S., Vafei-Nezhad, M., Shadi, M., Ezi, S. 2022. The Impact of Diabetes on Hippocampus. *Hippocampus - Cytoarchitecture and Diseases. IntechOpen*. Available at: www.dx.doi.org/10.5772/intechopen.99895
- Vinken, M., Maes, M., Oliveira, A.G., Cogliati, B., Marques, P.E., Menezes, G.B. *et al.* 2014. Primary Hepatocytes And Their Cultures In Liver Apoptosis Research. *Arch. Toxicol*, 88(2), pp. 199-212.
- Wimalawansa, S. J. 2019. Vitamin D Deficiency: Effects on Oxidative Stress, Epigenetics, Gene Regulation, and Aging. *Biology*, 8(2), pp. 1-15.
- World Health Organization. 2022. Diabetes. World Health Organization. Available at: www.who.int/news-room/fact-sheets/detail/diabetes
- Yonguc, G. N., Dodurga, Y., Adiguzel, E., Gundogdu, G., Kucukatay, V., Ozbal, S. *et al.* 2015. Grape seed extract has superior beneficial effects than vitamin E on oxidative stress and apoptosis in the hippocampus of streptozotocin induced diabetic rats. *Gene*, 555(2), pp. 119-126.
- Yuniartha, R., Arfian, N., Setyaningsih, W. A. W., Kencana, S. M. S., Sari, D. C. R. 2022. Accelerated Senescence and Apoptosis in the Rat Liver during the Progression of Diabetic Complications. *Malays J Med Sci*, 29(6), pp. 46-59.
- Zmijewski, M. A. 2019. Vitamin D and Human Health. *Int J Mol Sci*, 20(1), pp. 145.