

DAFTAR PUSTAKA

- American Diabetes Association Professional Practice Committee. Introduction and methodology: Standards of Care in Diabetes—2025. *Diabetes Care* 2025;48
- Afroj A. Shaikh, Mayur K. Kolhatkar, Dipak R. Sopane, & Ashish N.Thorve. (2022). Review on: Diabetes Mellitus is a Disease. *International Journal of Research in Pharmaceutical Sciences*, 13(1), 102–109. <https://doi.org/10.26452/ijrps.v13i1.27>
- Ahmed, S. S., & Tarafdar, R. L. (2015). Hemoglobin A1c and Fructosamine in Diabetes : Clinical Use and Limitations. *Mitteilungen Klosterneuburg*, 65(3), 307–320. <https://www.researchgate.net/publication/274733745%0AHemoglobin>
- Alcendor, D. J. (2020). Dysregulation of endothelin-1: Implications for health disparities in Alzheimer's disease. *Journal of Personalized Medicine*, 10(4), 1–13. <https://doi.org/10.3390/jpm10040199>
- Asmat, U., Abad, K., & Ismail, K. (2016). Diabetes mellitus and oxidative stress—A concise review. *Saudi Pharmaceutical Journal*, 24(5), 547–553. <https://doi.org/10.1016/j.jsps.2015.03.013>
- Badan Kebijakan dan Pembangunan Kesehatan Survei Kesehatan Indonesia. (2023). Survei Kesehatan Indonesia Tahun 2023
- Banday, M. Z., Sameer, A. S., & Nissar, S. (2020). Pathophysiology of diabetes: An overview. *Avicenna Journal of Medicine*, 10(04), 174–188. https://doi.org/10.4103/ajm.ajm_53_20
- Banecki, K.M.R.M.; Dora, K.A. Endothelin-1 in Health and Disease. *Int. J. Mol. Sci.* 2023, 24, 11295. <https://doi.org/10.3390/ijms241411295>
- Chen H, Li J, Yang O, Kong J, Lin G. Effect of metformin on insulin-resistant endothelial cell function. *Oncol Lett.* 2015;9(3):1413-1416. doi: 10.3892/ol.2015.2883.
- Cronin R, Peng Y, Khavari R, Dias N, Shannon K, Ogilvie G, et al. The link between metabolic abnormalities and endothelial dysfunction in type 2 diabetes: an update. *Basic Res Cardiol.* 2012 Jan;107(1):237. doi: 10.1007/s00395-011-0237-1.
- Feingold KR. Lipid and lipoprotein metabolism. *Endocrinol Metab Clin N Am.* 2022 Jun;51(3):437-458. doi: 10.1016/j.ecl.2022.02.008.
- Firayanti, Z., Widaningsih, Y., Kurniawan, L. B., Sanusi, H., Zainuddin, A. A., & Esa, T. (2023). Analysis Of The Relationship Between HBA1C and Serum Galectin-3 Levels in Subjects With Type 2 Of Diabetes Mellitus. *Contagion: Scientific Periodical Journal of Public Health and Coastal Health*, 5(2), 493. <https://doi.org/10.30829/contagion.v5i2.15076>
- Freeman, B. D., Machado, F. S., Tanowitz, H. B., Mahalia, S., & Horizonte, B. (2015). *diseases.* 118(2), 110–119. <https://doi.org/10.1016/j.lfs.2014.04.021>.Endothelin-

- Freitas, P. A. C., Ehlert, L. R., & Camargo, J. L. (2017). Glycated albumin: A potential biomarker in diabetes. *Archives of Endocrinology and Metabolism*, 61(3), 296–304. <https://doi.org/10.1590/2359-3997000000272>
- Galicia-Garcia, U., Benito-Vicente, A., Jebari, S., Larrea-Sebal, A., Siddiqi, H., Uribe, K. B., Ostolaza, H., & Martin, C. (2020). Pathophysiology of type 2 diabetes mellitus. *International Journal of Molecular Sciences*, 21(17), 1–34. <https://doi.org/10.3390/ijms21176275>
- Gursel Ak, BuyukberberS, Sevinc A, *et al.* (2001). The relation between plasma endothelin- 1 levels and metabolic control, risk factors, treatment modalities, and diabetic microangiopathy in patients with type 2 diabetes mellitus. *J Diabetes Complications*, 15, 150-157.
- Guo, X., Xing, Y., & Jin, W. (2023). Role of ADMA in the pathogenesis of microvascular complications in type 2 diabetes mellitus. *Frontiers in Endocrinology*, 14(April), 1–10. <https://doi.org/10.3389/fendo.2023.1183586>
- Hirano, T. (2018). Pathophysiology of diabetic dyslipidemia. *Journal of Atherosclerosis and Thrombosis*, 25(9), 771–782. <https://doi.org/10.5551/jat.RV17023>
- Hopfner, R. L., & Gopalakrishnan, V. (2014). *Endothelin : emerging role in diabetic vascular complications. January 2000*. <https://doi.org/10.1007/s001250051308>
- International Diabetes Federation. (2021). Diabetes report 2000 — 2045. *International Diabetes Federation*, 1–2. <https://diabetesatlas.org/data/en/country/94/id.html>
- Iqbal, R., Harahap, M., Rostini, T., & Suraya, N. (2024). *Pemeriksaan Laboratorium pada Hemoglobin Terlikasi (HbA1C) : Review Standarisasi dan Implementasi Klinis*. 8(6), 1–10.
- Jenkins HN, Rivera-Gonzalez O, Gibert Y, Speed JS. Endothelin-1 in the pathophysiology of obesity and insulin resistance. *Obes Rev*. 2020 Dec;21(12):e13086. doi: 10.1111/obr.13086
- Jia, G., Bai, H., Mather, B., Hill, M. A., Jia, G., & Sowers, J. R. (2024). Diabetic Vasculopathy: Molecular Mechanisms and Clinical Insights. *International Journal of Molecular Sciences*, 25(2), 1–18. <https://doi.org/10.3390/ijms25020804>
- Jim, E. L. (2014). Metabolisme Lipoprotein. *Jurnal Biomedik (Jbm)*, 5(3). <https://doi.org/10.35790/jbm.5.3.2013.4335>
- Kalani, M. (2008). The importance of endothelin-I for microvascular dysfunction in diabetes. *Vascular Health and Risk Management*, 4(5), 1061–1068. <https://doi.org/10.2147/vhrm.s3920>
- Kazi, A. A., & Blonde, L. (2001). Classification of diabetes mellitus. In *Clinics in Laboratory Medicine* (Vol. 21, Issue 1). https://doi.org/10.5005/jp/books/12855_84
- Ke, C., Narayan, K. M. V., Chan, J. C. N., Jha, P., & Shah, B. R. (2022). Pathophysiology, phenotypes and management of type 2 diabetes mellitus in

- Indian and Chinese populations. *Nature Reviews Endocrinology*, 18(7), 413–432. <https://doi.org/10.1038/s41574-022-00669-4>
- Kowalczyk, A., Kleniewska, P., Kolodziejczyk, M., Skibska, B., & Goraca, A. (2015). The role of endothelin-1 and endothelin receptor antagonists in inflammatory response and sepsis. *Archivum Immunologiae et Therapiae Experimentalis*, 63(1), 41–52. <https://doi.org/10.1007/s00005-014-0310-1>
- Kurniatmaja, E. R., Sinorita, H., & Budi, L. (2017). The Difference Plasma Levels of Endotelin-1 in Type 2 Diabetes Mellitus Women with and without Hypertension. *Acta Interna: The Journal of Internal Medicine*, 5(1), 9–16.
- Kurniawan, L. B. (2024). *HbA1c As Diabetes Mellitus Biomarker and Its Methods Evolution*. 30(2), 191–196.
- Lee, J., Yun, J. S., & Ko, S. H. (2022). Advanced Glycation End Products and Their Effect on Vascular Complications in Type 2 Diabetes Mellitus. *Nutrients*, 14(15), 1–13. <https://doi.org/10.3390/nu14153086>
- Made Junior Rina Artha, I., Bhargah, A., Dharmawan, N. K., Pande, U. W., Triyana, K. A., Mahariski, P. A., Yuwono, J., Bhargah, V., Putu Yuda Prabawa, I., Manuaba, I. B. A. P., & Ketut Rina, I. (2019). High level of individual lipid profile and lipid ratio as a predictive marker of poor glycemic control in type-2 diabetes mellitus. *Vascular Health and Risk Management*, 15, 149–157. <https://doi.org/10.2147/VHRM.S209830>
- Maria Inggriani P, Musthafa A, Puspitawati I, Fachiroh J, Dewi FS, Hartopo AB. Increased endothelin-1 levels in coronary artery disease with diabetes mellitus in an Indonesian population. *Can J Physiol Pharmacol*. 2022;100(12):1230-1236. doi: 10.1139/cjpp-2022-0196
- Maruhashi, T., & Higashi, Y. (2021). Pathophysiological association between diabetes mellitus and endothelial dysfunction. *Antioxidants*, 10(8), 1–13. <https://doi.org/10.3390/antiox10081306>
- Maslat, A. O., Al-Mahmood, O. M., Al Khawaja, N. M., & Al-Shdefat, R. (2024). Association of Genetic polymorphisms of EDN1 gene and Endothelin-1 level in patients with type 2 diabetes mellitus in the Jordanian population. *Heliyon*, 10(1), e23676. <https://doi.org/10.1016/j.heliyon.2023.e23676>
- Mohajan S, Khan I, Mazumdar RM, Faruque MO, Hassan Z, Sikdar D, et al. Elevated serum endothelin-1 in newly diagnosed type 2 diabetes mellitus is associated with hyperglycemia. *Int Med J*. 2017 Feb;24(1):6-9.
- Human EDN1 (Endothelin-1) ELISA Kit. <https://www.mylabsource.com/edn1-human-elisa-kits/endothelin-1/761947>
- Noche Christelle, D., Alex, D., Stephanie, E., O'neal, Y., Leonard, T., Giles, K., & Eugene, S. (2023). Evaluation of Endothelin-1 and Glycated Haemoglobin in Type 2 Diabetic Patients With and Without Retinopathy. *International Journal of Retina (IJRETINA)* 2023, 7(1), 39–47. <https://doi.org/10.35479/ijretina.2024.vol007.iss001.255..>

- Pengurus Besar Perkumpulan Endokrinologi Indonesia (PB PERKENI) (2024). *Pedoman pengelolaan dan pencegahan diabetes melitus tipe 2 di indonesia 2024*.
- Pengurus Besar Perkumpulan Endokrinologi Indonesia (PB PERKENI). (2021). *Pengelolaan Dislipidemia Di Indonesia 2021*.
- Petersmann, A., Nauck, M., Müller-Wieland, D., Kerner, W., Müller, U. A., Landgraf, R., Freckmann, G., & Heinemann, L. (2018). Definition, classification and diagnostics of diabetes mellitus. *Journal of Laboratory Medicine*, 42(3), 73–79. <https://doi.org/10.1515/labmed-2018-0016>
- Petkova-Parlapanska KV, Georgieva ED, Karamalakova YD, Goycheva PI, Nikolova GD. Type 2 diabetes mellitus and vascular complications. *Bulg Chem Commun*. 2024;56(Special Issue D2):104-108. doi: 10.34049/bcc.56.D.S2P51.
- Poznyak, A. (2020). *Hubungan Diabetes Melitus dengan Aterosklerosis: Peran Metabolisme Lipid dan Glukosa dan Peradangan Kronis*. 1–13. <https://doi.org/10.3390/ijms21051835>
- Poznyak, A., Grechko, A. V., Poggio, P., Myasoedova, V. A., Alfieri, V., & Orekhov, A. N. (2020). The diabetes mellitus–atherosclerosis connection: The role of lipid and glucose metabolism and chronic inflammation. *International Journal of Molecular Sciences*, 21(5), 1–13. <https://doi.org/10.3390/ijms21051835>
- Punthakee, Z., Goldenberg, R., & Katz, P. (2018). Definition , Classification and Diagnosis of Diabetes , Prediabetes and Metabolic Syndrome Diabetes Canada Clinical Practice Guidelines Expert Committee. *Canadian Journal of Diabetes*, 42, S10–S15. <https://doi.org/10.1016/j.jcjd.2017.10.003>
- Robert Cronin Yung Peng, Rose Khavari, N. D., & Kate Shannon ., G. O. D. P. J. S. J. M. C. F. R. N. (2016). 乳鼠心肌提取 HHS Public Access. *Physiology & Behavior*, 176(1), 139–148. <https://doi.org/10.1007/s00395-011-0237-1>.The
- Sapra A, Bhandari P. Diabetes. 2023 Jun 21. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2026 Jan–. PMID: 31855345.
- Sahebkar A, Kotani K, Serban C, Ursoniu S, Mikhailidis DP, Jones SR, et al. Statin therapy reduces plasma endothelin-1 concentrations: A meta-analysis of 15 randomized controlled trials. *Atherosclerosis*. 2015 Aug;241(2):433-42. doi: 10.1016/j.atherosclerosis.2015.05.022.
- Sherwani, S. I., Khan, H. A., Ekhzaimy, A., Masood, A., & Sakharkar, M. K. (2016). Significance of HbA1c test in diagnosis and prognosis of diabetic patients. *Biomarker Insights*, 11, 95–104. <https://doi.org/10.4137/Bmi.s38440>
- Sokolova, L. K., Belchina, Y. B., Pushkarev, V. V., Cherviakova, S. A., Vatseba, T. S., Kovzun, O. I., Pushkarev, V. M., & Tronko, M. D. (2020). The blood level of endothelin-1 in diabetic patients depending on the characteristics of the disease. *Miznarodnij Endokrinologichnij Zurnal*, 16(3), 204–208. <https://doi.org/10.22141/2224-0721.16.3.2020.205267>
- Sreenivasamurthy, L. (2021). Evolution in Diagnosis and Classification of Diabetes.

Journal of Diabetes Mellitus, 11(05), 200–207.
<https://doi.org/10.4236/jdm.2021.115017>

Thapa SD, KC Shiva Raj, Gautam S, Gyawali D. Dyslipidemia in Type 2 Diabetes mellitus. 2017;7:1149-54. Doi 10.3126/jpn.v7i2.17978

Ulandari, R., Kurniawan, L. B., Nurahmi, & Muhadi, D. (2023). Analysis of NLR in Type 2 Diabetes Mellitus with and without Diabetic Foot Ulcer. *Indonesian Journal of Clinical Pathology and Medical Laboratory*, 29(2), 185–188.
<https://doi.org/10.24293/ijcpml.v29i2.1971>

Vergès, B. (2015). Pathophysiology of diabetic dyslipidaemia: where are we? *Diabetologia*, 58(5), 886–899. <https://doi.org/10.1007/s00125-015-3525-8>

Wahyuni, T., Hastuti, M. S., Chahyani, W. I., Shabrina, F. A., & Tubarad, G. D. T. (2023). Profil Komponen Sindroma Metabolik pada Pasien Diabetes Mellitus (DM) Usia Lanjut di Rumah Sakit Islam Jakarta Cempaka Putih. *Muhammadiyah Journal of Geriatric*, 4(1), 23. <https://doi.org/10.24853/mujg.4.1.23-34>

Wengrofsky P, Lee J, Makaryus AN. Dyslipidemia and its role in the pathogenesis of atherosclerotic cardiovascular disease: implications for evaluation and targets for treatment of dyslipidemia based on recent guidelines. [https://doi: 10.5772/intechopen.85772](https://doi.org/10.5772/intechopen.85772).

World Health Organization. (2019). Classification of diabetes mellitus 2019. In *Clinics in Laboratory Medicine* (Vol. 21, Issue 1).
https://doi.org/10.5005/jp/books/12855_84

Yang, C., Zhu, C.-G., Guo, Y.-L., Wu, N.-Q., Dong, Q., Xu, R.-X., Wu, Y.-J., Qian, J., & Li, J.-J. (2024). Prognostic Value of Plasma Endothelin-1 in Predicting Worse Outcomes in Patients with Prediabetes and Diabetes and Stable Coronary Artery Diseases. *Diabetes & Metabolism Journal*, 993–1002.
<https://doi.org/10.4093/dmj.2023.0410>

Yang, D. R., Wang, M. Y., Zhang, C. L., & Wang, Y. (2024). Endothelial dysfunction in vascular complications of diabetes: a comprehensive review of mechanisms and implications. *Frontiers in Endocrinology*, 15(April), 1–21.
<https://doi.org/10.3389/fendo.2024.1359255>