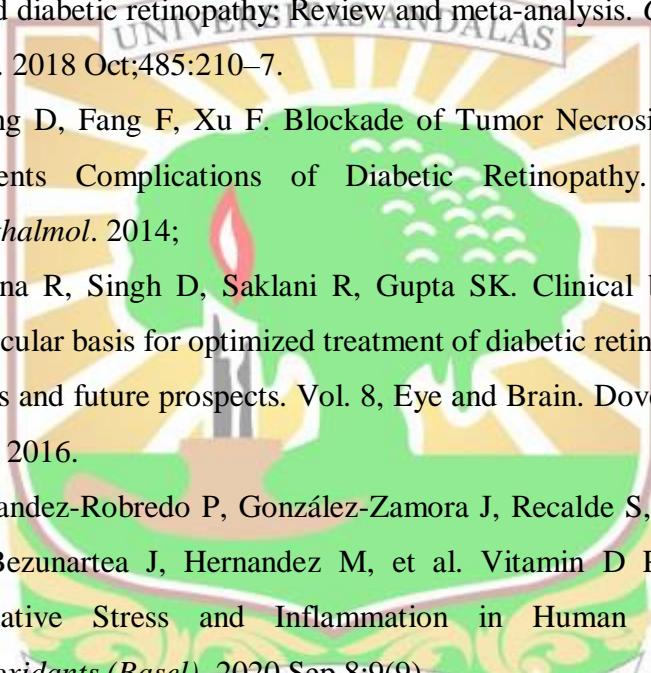


## DAFTAR PUSTAKA

1. American Diabetes Association. ADA Standards-of-Care-2024. *Standards of Medical Care in Diabetes*. 2024;231–4.
2. Endokrinologi Indonesia. PEDOMAN PENGELOLAAN DAN PENCEGAHAN DIABETES MELITUS TIPE 2 DEWASA DI INDONESIA-2021 PERKENI i Penerbit PB. PERKENI. 2021.
3. Wiley HE, Chew EY, L F. Nonproliferative Diabetic Retinopathy and Diabetic Macular Edema. In: Ryan's Retina. 7th ed. Cleveland: Elsevier; 2022.
4. Sun JK, Ashraf M, Aiello LP. Diabetic Retinopathy: Etiologic Mechanisms and Genetics. In: Ryan's Retina. 7th ed. Cleveland: Elsevier; 2022. p. 1053–65.
5. Rapuano CJ, Stout JT, McCannel CA. Diabetic Retinopathy. In: Retina and Vitreous. San Francisco: American Academy of Ophthalmology; 2023. p. 99–129.
6. Kementerian Kesehatan Indonesia. Laporan Nasional Riset Kesehatan Dasar 2018. 2018.
7. Teo ZL, Tham Y-C, Yu M, Chee ML, Rim TH, Cheung N, et al. Global Prevalence of Diabetic Retinopathy and Projection of Burden through 2045: Systematic Review and Meta-analysis. *Ophthalmology*. 2021 Nov;128(11):1580–91.
8. Sasongko MB, Widyaputri F, Agni AN, Wardhana FS, Kotha S, Gupta P, et al. Prevalence of Diabetic Retinopathy and Blindness in Indonesian Adults With Type 2 Diabetes. *Am J Ophthalmol*. 2017 Sep;181:79–87.
9. Halim A, Syumarti S, Rini M, Ratnaningsih N, Iskandar E, Sovani I, et al. Prevalence and Associated Factors of Diabetic Retinopathy in People with Type 2 Diabetes Attending Community Based Diabetic Retinopathy Screening in Greater Bandung, Indonesia. *International Journal of Retina*. 2022 Feb 22;5(1):1.
10. Ansari P, Tabasumma N, Snigdha NN, Siam NH, Panduru RVNRS, Azam S, et al. Diabetic Retinopathy: An Overview on Mechanisms,

Pathophysiology and Pharmacotherapy. *Diabetology*. 2022 Feb 15;3(1):159–75.

11. Kaštelan S, Orešković I, Bišćan F, Kaštelan H, Gverović Antunica A. Inflammatory and angiogenic biomarkers in diabetic retinopathy. *Biochem Med (Zagreb)*. 2020 Oct 15;30(3):030502.
12. Tang J, Kern TS. Inflammation in diabetic retinopathy. *Prog Retin Eye Res*. 2011 Sep;30(5):343–58.
13. Meleth AD, Agrón E, Chan CC, Reed GF, Arora K, Byrnes G, et al. Serum inflammatory markers in diabetic retinopathy. *Invest Ophthalmol Vis Sci*. 2005 Nov;46(11):4295–301.
14. Rübsam A, Parikh S, Fort PE. Role of Inflammation in Diabetic Retinopathy. *Int J Mol Sci*. 2018 Mar 22;19(4).
15. Mitamura Y, Harada C, Harada T. Role of Cytokines and Trophic Factors in the Pathogenesis of Diabetic Retinopathy. Vol. 1, Current Diabetes Reviews. 2005.
16. Zhang ZH, Chen QZ, Jiang F, Townsend TA, Mao CJ, You CY, et al. Changes in TL1A levels and associated cytokines during pathogenesis of diabetic retinopathy. *Mol Med Rep*. 2017 Feb 1;15(2):573–80.
17. Kuo CYJ, Murphy R, Rupenthal ID, Mugisho OO. Correlation between the progression of diabetic retinopathy and inflammasome biomarkers in vitreous and serum – a systematic review. *BMC Ophthalmol*. 2022 Dec 1;22(1).
18. Wu H, Hwang D-K, Song X, Tao Y. Association between Aqueous Cytokines and Diabetic Retinopathy Stage. *J Ophthalmol*. 2017;2017:9402198.
19. Eustolio Hernández-Da Mota S, Soto-Bahena JJ, Viveros-Sandoval ME, Cardiel-Ríos M. Pro-inflammatory serum cytokines in diabetic retinopathy [Internet]. Vol. 83. 2015.
20. Gustavsson C, Agardh E, Bengtsson B, Agardh CD. TNF- $\alpha$  is an independent serum marker for proliferative retinopathy in type 1 diabetic patients. *J Diabetes Complications*. 2008 Sep;22(5):309–16.

- 
21. Zorena K, Myśliwska J, Myśliwiec M, Balcerska A, Hak Ł, Lipowski P, et al. Serum TNF-alpha level predicts nonproliferative diabetic retinopathy in children. *Mediators Inflamm.* 2007;2007.
  22. Iyer SSR, Lagrew MK, Tillit SM, Roohipourmoallai R, Korntner S. The Vitreous Ecosystem in Diabetic Retinopathy: Insight into the Patho-Mechanisms of Disease. *Int J Mol Sci.* 2021 Jul 1;22(13):7142.
  23. Demircan N, Safran BG, Soylu M, Ozcan AA, Sizmaz S. Determination of vitreous interleukin-1 (IL-1) and tumour necrosis factor (TNF) levels in proliferative diabetic retinopathy. *Eye.* 2006;20(12):1366–9.
  24. Yao Y, Li R, Du J, Li X, Zhao L, Long L, et al. Tumor necrosis factor- $\alpha$  and diabetic retinopathy: Review and meta-analysis. *Clinica Chimica Acta.* 2018 Oct;485:210–7.
  25. Huang D, Fang F, Xu F. Blockade of Tumor Necrosis Factor Alpha Prevents Complications of Diabetic Retinopathy. *J Clin Exp Ophthalmol.* 2014;
  26. Saxena R, Singh D, Saklani R, Gupta SK. Clinical biomarkers and molecular basis for optimized treatment of diabetic retinopathy: Current status and future prospects. Vol. 8, Eye and Brain. Dove Medical Press Ltd.; 2016.
  27. Fernandez-Robredo P, González-Zamora J, Recalde S, Bilbao-Malavé V, Bezunartea J, Hernandez M, et al. Vitamin D Protects against Oxidative Stress and Inflammation in Human Retinal Cells. *Antioxidants (Basel).* 2020 Sep 8;9(9).
  28. Tecilazich F, Formenti AM, Giustina A. Role of vitamin D in diabetic retinopathy: Pathophysiological and clinical aspects. Vol. 22, Reviews in Endocrine and Metabolic Disorders. Springer; 2021. p. 715–27.
  29. Valle MS, Russo C, Malaguarnera L. Protective role of vitamin D against oxidative stress in diabetic retinopathy. *Diabetes Metab Res Rev.* 2021 Nov 1;37(8).
  30. Putri KA, Helvinda W, Hendriati. Perbandingan Kadar Serum Vitamin D pada Pasien Non Proliferative Diabetic Retinopathy dan Proliferative

Diabetic Retinopathy di RS. Dr. M. Djamil Padang . [Padang]: Andalas University; 2022.

31. Nadri G, Saxena S, Kaur A, Ahmad K, Garg P, Mahdi AA, et al. Correlation between vitamin D serum levels and severity of diabetic retinopathy in patients with type 2 diabetes mellitus. *Journal of Endocrinology, Metabolism and Diabetes of South Africa*. 2021 Sep 2;26(3):82–8.
32. Omidian M, Djalali M, Javanbakht MH, Eshraghian MR, Abshirini M, Omidian P, et al. Effects of Vitamin D supplementation on advanced glycation end products signaling pathway in T2DM patients: A randomized, placebo-controlled, double blind clinical trial. *Diabetol Metab Syndr*. 2019 Oct 26;11(1).
33. Mousa A, Naderpoor N, Teede H, Scragg R, de Courten B. Vitamin D supplementation for improvement of chronic low-grade inflammation in patients with type 2 diabetes: A systematic review and meta-analysis of randomized controlled trials. *Nutr Rev*. 2018 May 1;76(5):380–94.
34. Lu L, Lu Q, Chen W, Li J, Li C, Zheng Z. Vitamin D3 Protects against Diabetic Retinopathy by Inhibiting High-Glucose-Induced Activation of the ROS/TXNIP/NLRP3 Inflammasome Pathway. *J Diabetes Res*. 2018 Feb 22;2018:1–11.
35. Syafutri S, Helvinda W, Wati rinda. Pengaruh Vitamin D3 Terhadap Kadar Vascular Endothelial Growth Factor Vitreus Tikus Model Diabetes Melitus. [Padang]: Andalas University; 2023.
36. Rapuano CJ, Stout JT, McCannel CA. Basic Anatomy. In: Retina and Vitreous. San Francisco: American Academy of Ophthalmology; 2023. p. 5–19.
37. Rapuano C, Stout J, McCannel C. Vitreous. In: Fundamentals and Principles of Ophthalmology. San Franscisco: American Academy of Ophthalmology; 2023. p. 295–304.
38. Oshitari T. Advanced Glycation End-Products and Diabetic Neuropathy of the Retina. Vol. 24, International Journal of Molecular Sciences. MDPI; 2023.

39. Kowluru RA, Mishra M. Oxidative stress, mitochondrial damage and diabetic retinopathy. *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease*. 2015 Nov;1852(11):2474–83.
40. Brownlee M. Biochemistry and molecular cell biology of diabetic complications. *Nature*. 2001 Dec 13;414(6865):813–20.
41. Georgescu A, Dascalu A, Stana D, Alexandrescu C, Bobirca A, Cristea BM, et al. The role of inflammation in diabetic retinopathy in patients with type II diabetes; potential therapeutic perspectives. *Journal of Mind and Medical Sciences*. 2024 Apr 30;11(1):17–23.
42. Özay Y, Ozek D, Yıldırım F, Yıldırım Z. The effect of diabetes on vitreous levels of adiponectin and inflammatory cytokines in experimental rat model. *Advances in Clinical and Experimental Medicine*. 2020 Apr 1;29(4):449–52.
43. Swaroop JJ, Rajarajeswari D, Naidu JN. Association of TNF- $\alpha$  with insulin resistance in type 2 diabetes mellitus.
44. Moller DE. Potential Role of TNF- $\alpha$  in the Pathogenesis of Insulin Resistance and Type 2 Diabetes. *Trends in Endocrinology and Metabolism*. 2000;
45. Huang H, Gandhi JK, Zhong X, Wei Y, Gong J, Duh EJ, et al. TNF $\alpha$  is required for late BRB breakdown in diabetic retinopathy, and its inhibition prevents leukostasis and protects vessels and neurons from apoptosis. *Invest Ophthalmol Vis Sci*. 2011 Mar;52(3):1336–44.
46. Gverović Antunica A, Znaor L, Ivanković M, Puzović V, Marković I, Kaštelan S. Vitamin D and Diabetic Retinopathy. *Int J Mol Sci*. 2023 Jul 27;24(15):12014.
47. Quiroz J, Yazdanyar A. Animal models of diabetic retinopathy. *Ann Transl Med*. 2021 Aug;9(15):1272.
48. Akbarzadeh A, Norouzian D, Mehrabi MR, Jamshidi S, Farhangi A, Verdi AA, et al. Induction of diabetes by Streptozotocin in rats. *Indian J Clin Biochem*. 2007 Sep;22(2):60–4.
49. Furman BL. Streptozotocin-Induced Diabetic Models in Mice and Rats. *Curr Protoc*. 2021 Apr 27;1(4).

50. Lai AKW, Lo ACY. Animal models of diabetic retinopathy: Summary and comparison. Vol. 2013, *Journal of Diabetes Research*. 2013.
51. Sadikan MZ, Abdul Nasir NA, Lambuk L, Mohamud R, Reshidan NH, Low E, et al. Diabetic retinopathy: a comprehensive update on in vivo, in vitro and ex vivo experimental models. Vol. 23, *BMC Ophthalmology*. BioMed Central Ltd; 2023.
52. Chen M, Stitt A. Animal Models of Diabetic Retinopathy. In: *Animal Models of Ophthalmic Diseases*. Cleveland: Springer; p. 68–81.
53. Ghasemi A, Jedd S. STREPTOZOTOCIN AS A TOOL FOR INDUCTION OF RAT MODELS OF DIABETES: A PRACTICAL GUIDE. Vol. 22, EXCLI Journal. Leibniz Research Centre for Working Environment and Human Factors; 2023. p. 274–94.
54. Gheibi S, Kashfi K, Ghasemi A. A practical guide for induction of type-2 diabetes in rat: Incorporating a high-fat diet and streptozotocin. *Biomedicine & Pharmacotherapy*. 2017 Nov;95:605–13.
55. Gong CY, Lu B, Hu QW, Ji LL. Streptozotocin induced diabetic retinopathy in rat and the expression of vascular endothelial growth factor and its receptor. *Int J Ophthalmol*. 2013;6(5):573–7.
56. Costagliola C, Romano V, De Tullis M, Aceto F, dell’Omo R, Romano MR, et al. TNF-alpha levels in tears: a novel biomarker to assess the degree of diabetic retinopathy. *Mediators Inflamm*. 2013;2013.
57. Yan L-J, Wu J. Streptozotocin-induced type 1 diabetes in rodents as a model for studying mitochondrial mechanisms of diabetic &beta; cell glucotoxicity. *Diabetes Metab Syndr Obes*. 2015 Apr;181.
58. Gu JC, Wu YG, Huang WG, Fan XJ, Chen XH, Zhou B, et al. Effect of vitamin D on oxidative stress and serum inflammatory factors in the patients with type 2 diabetes. *J Clin Lab Anal*. 2022 May 1;36(5).
59. Lazzara F, Longo AM, Giurdanella G, Lupo G, Platania CBM, Rossi S, et al. Vitamin D3 preserves blood retinal barrier integrity in an in vitro model of diabetic retinopathy. *Front Pharmacol*. 2022 Aug 26;13.

60. Totolici G, Tiutiuca C, Jurja S, Tutunaru D, Patrascu AM. The role of vitamin D in the onset and progression of diabetic retinopathy. *Rom J Ophthalmol.* 2022 Oct 10;66(3).

