

DAFTAR PUSTAKA

1. Sun H, Saeedi P, Karuranga S, Pinkepank M, Ogurtsova K, Duncan BB, et al. IDF Diabetes Atlas: Global, regional and country-level diabetes prevalence estimates for 2021 and projections for 2045. *Diabetes Res Clin Pract.* 2022 Jan;183:109119.
2. PERKENI. Pedoman Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia . 2021;
3. Diagnosis and Classification of Diabetes Mellitus. *Diabetes Care.* 2010 Jan 1;33(Supplement_1):S62–9.
4. Hom M, De Land P. Self-reported dry eyes and diabetic history. *Optometry - Journal of the American Optometric Association.* 2006 Nov;77(11):554–8.
5. Manaviat MR, Rashidi M, Afkhani-Ardekani M, Shoja MR. Prevalence of dry eye syndrome and diabetic retinopathy in type 2 diabetic patients. *BMC Ophthalmol.* 2008 Dec 2;8(1):10.
6. Rapuano CJ, Stout JT, McCannel CA. Tear Film. In: *Fundamental and Principles of Ophthalmology.* 2020th–2021st ed. San Francisco: American Academy of Ophthalmology; 2020. p. 247–58.
7. Rapuano CJ, Stout JT, McCannel CA. Structure and Function of the External Eye and Cornea. In: *External Disease and Cornea.* 2020th–2021st ed. San Fransisco: American Academy of Ophthalmology; 2020. p. 4–6.
8. Zhang X, Zhao L, Deng S, Sun X, Wang N. Dry Eye Syndrome in Patients with Diabetes Mellitus: Prevalence, Etiology, and Clinical Characteristics. *J Ophthalmol.* 2016;2016:1–7.
9. Han SB, Yang HK, Hyon JY. Influence of diabetes mellitus on anterior segment of the eye. *Clin Interv Aging.* 2018 Dec;Volume 14:53–63.
10. De Freitas GR, Ferraz GAM, Gehlen M, Skare TL. Dry eyes in patients with diabetes mellitus. *Prim Care Diabetes.* 2021 Feb;15(1):184–6.
11. Alves M, Calegari VC, Cunha DA, Saad MJA, Velloso LA, Rocha EM. Increased expression of advanced glycation end-products and their receptor, and activation of nuclear factor kappa-B in lacrimal glands of diabetic rats. *Diabetologia.* 2005 Dec 8;48(12):2675–81.
12. Sailaja Rao P, Kalva S, Yerramilli A, Mamidi S. Free Radicals and Tissue Damage: Role of Antioxidants. *Free Radicals and Antioxidants.* 2011 Oct;1(4):2–7.
13. Uchino Y, Kawakita T, Miyazawa M, Ishii T, Onouchi H, Yasuda K, et al. Oxidative Stress Induced Inflammation Initiates Functional Decline of Tear Production. *PLoS One.* 2012 Oct 5;7(10):e45805.
14. Phaniendra A, Jestadi DB, Periyasamy L. Free Radicals: Properties, Sources, Targets, and Their Implication in Various Diseases. *Indian Journal of Clinical Biochemistry.* 2015 Jan 15;30(1):11–26.

15. Xue J, Zhang B, Dou S, Zhou Q, Ding M, Zhou M, et al. Revealing the Angiopathy of Lacrimal Gland Lesion in Type 2 Diabetes. *Front Physiol.* 2021 Aug 31;12.
16. Rouen PA, White ML. Dry Eye Disease. *Home Healthc Now.* 2018 Mar;36(2):74–83.
17. Gayton JL. Etiology, prevalence, and treatment of dry eye disease. *Clin Ophthalmol.* 2009;3:405–12.
18. Yoo TK, Oh E. Diabetes mellitus is associated with dry eye syndrome: a meta-analysis. *Int Ophthalmol.* 2019 Nov 7;39(11):2611–20.
19. Baudouin C. The pathology of dry eye. *Surv Ophthalmol.* 2001 Mar;45 Suppl 2:S211-20.
20. Seen S, Tong L. Dry eye disease and oxidative stress. *Acta Ophthalmol.* 2018 Jun;96(4):e412–20.
21. de la Cuadra-Blanco C, Peces-Pena MD, Merida-Velasco JR. Morphogenesis of the human lacrimal gland. *J Anat.* 2003 Nov;203(5):531–6.
22. Yao Y, Zhang Y. The lacrimal gland: development, wound repair and regeneration. *Biotechnol Lett.* 2017 Jul 28;39(7):939–49.
23. Burkat CN, Lucarelli MJ. Anatomy of the Lacrimal System. In: *The Lacrimal System.* Springer New York; p. 3–19.
24. Rapuano C, Stout J, McCannel C. Orbit and Ocular Adnexa. In: *Fundamentals and Principles of Ophthalmology.* 2020th–2021st ed. San Fransisco: American Academy of Ophthalmology; 2021. p. 39–43.
25. Conrady CD, Joos ZP, Patel BCK. Review: The Lacrimal Gland and Its Role in Dry Eye. *J Ophthalmol.* 2016;2016:1–11.
26. Obata H. Anatomy and Histopathology of the Human Lacrimal Gland. *Cornea.* 2006 Dec;25(Supplement 1):S82–9.
27. Levin LA. Formation and Function of the Tear Film. In: *Adler's Physiology of the eye.* 11th ed. Elsevier Saunders; 2011. p. 350–61.
28. Braun RJ. Dynamics of the Tear Film. *Annu Rev Fluid Mech.* 2012 Jan 21;44(1):267–97.
29. Professional Practice Committee. *Diabetes Care.* 2017 Jan 1;40(Supplement_1):S3–S3.
30. The epidemiology of dry eye disease: report of the Epidemiology Subcommittee of the International Dry Eye WorkShop (2007). *Ocul Surf.* 2007 Apr;5(2):93–107.
31. Rouen PA, White ML. Dry Eye Disease: Prevalence, Assessment, and Management. *Home Healthc Now.* 36(2):74–83.
32. Zoukhri D. Effect of inflammation on lacrimal gland function. *Exp Eye Res.* 2006 May;82(5):885–98.

33. Zhang X, Zhao L, Deng S, Sun X, Wang N. Dry Eye Syndrome in Patients with Diabetes Mellitus: Prevalence, Etiology, and Clinical Characteristics. *J Ophthalmol.* 2016;2016:1–7.
34. Gasser A, Forbes J. Advanced Glycation: Implications in Tissue Damage and Disease. *Protein Pept Lett.* 2008 May 1;15(4):385–91.
35. Di Meo S, Venditti P. Evolution of the Knowledge of Free Radicals and Other Oxidants. *Oxid Med Cell Longev.* 2020 Apr 24;2020:1–32.
36. Zulaikhah ST. The Role of Antioxidant to Prevent Free Radicals in The Body. *Sains Medika.* 2017 Apr 4;8(1):39.
37. Phaniendra A, Jestadi DB, Periyasamy L. Free Radicals: Properties, Sources, Targets, and Their Implication in Various Diseases. *Indian Journal of Clinical Biochemistry.* 2015 Jan 15;30(1):11–26.
38. Dogru M, Kojima T, Simsek C, Tsubota K. Potential Role of Oxidative Stress in Ocular Surface Inflammation and Dry Eye Disease. *Investigative Ophthalmology & Visual Science.* 2018 Nov 27;59(14):DES163.
39. Giacco F, Brownlee M. Oxidative Stress and Diabetic Complications. *Circ Res.* 2010 Oct 29;107(9):1058–70.
40. Chen Y, Zhou Z, Min W. Mitochondria, Oxidative Stress and Innate Immunity. *Front Physiol.* 2018 Oct 18;9.
41. SINGH Z, KARTHIGESU IP, SINGH P, KAUR R. Use of Malondialdehyde as a Biomarker for Assessing Oxidative Stress in Different Disease Pathologies: a Review. *Iran J Public Health [Internet].* 2015 Oct 21;43(Supple 3). Available from: <https://ijph.tums.ac.ir/index.php/ijph/article/view/4858>
42. Ayala A, Muñoz MF, Argüelles S. Lipid peroxidation: production, metabolism, and signaling mechanisms of malondialdehyde and 4-hydroxy-2-nonenal. *Oxid Med Cell Longev.* 2014;2014:360438.
43. Slatter DA, Bolton CH, Bailey AJ. The importance of lipid-derived malondialdehyde in diabetes mellitus. *Diabetologia.* 2000 May;43(5):550–7.
44. Lykkesfeldt J. Malondialdehyde as biomarker of oxidative damage to lipids caused by smoking. *Clin Chim Acta.* 2007 May 1;380(1–2):50–8.
45. Lai AKW, Lo ACY. Animal models of diabetic retinopathy: summary and comparison. *J Diabetes Res.* 2013;2013:106594.
46. Pitale PM, Gorbatyuk MS. Diabetic Retinopathy: From Animal Models to Cellular Signaling. *Int J Mol Sci.* 2022 Jan 27;23(3):1487.
47. West-Mays J, Bowman S. Animal Models of Cataracts. In 2016. p. 11–29.
48. Sengupta P. The Laboratory Rat: Relating Its Age With Human's. *Int J Prev Med.* 2013 Jun;4(6):624–30.

49. Shinomiya K, Ueta M, Kinoshita S. A new dry eye mouse model produced by exorbital and intraorbital lacrimal gland excision. *Sci Rep*. 2018 Dec 24;8(1):1483.
50. Furman BL. Streptozotocin-Induced Diabetic Models in Mice and Rats. *Curr Protoc Pharmacol*. 2015 Sep;70(1).
51. Wu KK, Huan Y. Streptozotocin-Induced Diabetic Models in Mice and Rats. *Curr Protoc Pharmacol*. 2008 Mar 15;40(1).
52. Akbarzadeh A, Norouzian D, Mehrabi MR, Jamshidi Sh, Farhangi A, Verdi AA, et al. Induction of diabetes by Streptozotocin in rats. *Indian Journal of Clinical Biochemistry*. 2007 Sep;22(2):60–4.
53. Obata H, Yamamoto S, Horiuchi H, Machinami R. Histopathologic Study of Human Lacrimal Gland. *Ophthalmology*. 1995 Apr;102(4):678–86.
54. Ríos JD, Horikawa Y, Chen LL, Kublin CL, Hodges RR, Dartt DA, et al. Age- dependent alterations in mouse exorbital lacrimal gland structure, innervation and secretory response. *Exp Eye Res*. 2005 Apr;80(4):477–91.
55. Lemos CN, Silva LECM da, Faustino JF, Fantucci MZ, Murashima A de AB, Adriano L, et al. Oxidative Stress in the Protection and Injury of the Lacrimal Gland and the Ocular Surface: are There Perspectives for Therapeutics? *Front Cell Dev Biol*. 2022 Mar 11;10.
56. Módulo CM, Jorge AG, Dias AC, Braz AM, Bertazolli-Filho R, Jordão AA, et al. Influence of insulin treatment on the lacrimal gland and ocular surface of diabetic rats. *Endocrine*. 2009 Aug 24;36(1):161–8.

