

DAFTAR PUSTAKA

1. Petersmann A, Nauck M, Wieland DM, Kerner W, Müller UA, Landgraf R, et al. Definition, Classification and Diagnosis of Diabetes Mellitus. *Exp Clin Endocrinol Diabetes*. 2018; 42(3): 73-9.
2. American Diabetes Association. Diagnosis and Classification of Diabetes Mellitus. 2014; 37: 81-90.
3. Punthakee Z, Goldenberg R, Katz P. Definition, Classification and Diagnosis of Diabetes, Prediabetes and Metabolic Syndrome. *Can J Diabetes*. 2018; 42: 510–515.
4. International Diabetes Federation. IDF Diabetes Atlas. 8th ed. 2017. p.40–65.
5. Hasbi, H, Gustina, S. Regulasi Androgen dalam Spermatogenesis untuk Meningkatkan Fertilitas Ternak Jantan. 2018; 28(1): 13–22.
6. Oktarina A, Abadi A, Bachsin R. Faktor-faktor yang Memengaruhi Infertilitas pada Wanita di Klinik Fertilitas Endokrinologi Reproduksi. 2014; 46(4): 295–300.
7. Borghot MV, Wyns C. Fertility and Infertility: Definition and Epidemiology. *Clin Biochem*. 2018; 62: 2–10.
8. Sharma A. Male Infertility; Evidences, Risk Factors, Causes, Diagnosis and Management in Human. *Ann Clin Lab Res*. 2017; 5(3): 188
9. Nna VU, Bakar ABA, Mohamed M. Diabetes Mellitus-Induced Male Reproductive Impairment: The Role of Natural Products: A Review. *J Appl Pharm Sci*. 2017; 7(9): 233–242.
10. La Vignera S, Condorelli R, Vicari E, D'Agata R, Calogero AE. Diabetes Mellitus and Sperm Parameters. *J Androl*. 2012; 33(2): 145–153.
11. Kulczyński B, Gramza-Michałowska A. Goji berry (*Lycium barbarum*): composition and health effects - a review. *Polish J Food Nutr Sci*. 2016; 66(2): 67–75.
12. Shi G-J, Zheng J, Wu J, Qiao H-Q, Chang Q, Niu Y, et al. Protective Effects of *Lycium barbarum* Polysaccharide on Male Sexual Dysfunction and Fertility Impairments by Activating Hypothalamic Pituitary Gonadal Axis in Streptozotocin-Induced Type-1 Diabetic Male Mice. *Endocr J*. 2017; 64(9): 907–922.
13. Zhou S-F, Cheng J, Zhou Z-W, Sheng H-P, He L-J, Fan X-W, et al. An Evidence-Based Update on The Pharmacological Activities and Possible Molecular Targets of *Lycium barbarum* Polysaccharides. *Drug Des Devel Ther*. 2015; 9: 33–78.

14. Zhang C, Wang A, Sun X, Li X, Zhao X, Li S, et al. Protective Effects of Lycium barbarum Polysaccharides on Testis Spermatogenic Injury Induced by Bisphenol A in Mice. *Evidence-based Complement Altern Med*. 2013.
15. Cai H, Liu F, Zuo P, Huang G, Song Z, Wang T, et al. Practical Application of Antidiabetic Efficacy of Lycium barbarum Polysaccharide in Patients with Type 2 Diabetes. 2015; 11(4): 383–390.
16. Long L, Qiu H, Cai B, Chen N, Lu X, Zheng S, et al. Hyperglycemia Induced Testicular Damage in Type 2 Diabetes Mellitus Rats Exhibiting Microcirculation Impairments Associated with Vascular Endothelial Growth Factor Decreased via PI3K/Akt Pathway. 2018; 9(4): 5321–5336.
17. PERKENI. Konsensus Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia 2015. Indonesia: PERKENI; 2015.
18. World Health Organization. Global Report On Diabetes. 2016.
19. Indarwati I, Hastuti URB, Dewi YLR. Analysis of Factors Influencing Female Infertility. *Journal of Maternal and Child Health*. 2017; 2(2): 150-161.
20. Dimitriadis F, Adonakis G, Kaponis A, Mamoulakis C, Takenaka A, Sofikitis N. Pre-testicular, Testicular, and Posttesticular Causes of Male Infertility. Springer International Publishing; 2017. p.3-29.
21. Condorelli RA, Vignera S La, Mongioi LM, Alamo A, Calogero AE. Diabetes mellitus and infertility: different pathophysiological effects in type 1 and type 2 on Sperm Function. *Front Endocrinol (Lausanne)*. 2018; 9: 268.
22. Pizzino G, Irrera N, Cucinotta M, Pallio G, Mannino F, Arcoraci V, et al. Oxidative stress: harms and benefits for human health. *Oxid Med Cell Longev*. 2017;13.
23. Balasaheb S, Pal D. Free radicals, natural antioxidants, and their reaction mechanisms. *RSC Adv*. 2015; 5: 27986–8006.
24. Paulsen F, Waschke J. Sobotta: Atlas Anatomi Manusia Jilid 2: Organ-Organ Dalam, Ed. 23. 23rd ed. EGC: Jakarta, 2012. p. 182-3.
25. Drake RL, Vogl AW, Mitchell AWM. Gray Dasar-Dasar Anatomi. 1st ed. Singapura: Elsevier, 2014. p. 225-6.
26. Moore KL, Agur AMR. Anatomi Klinis Dasar. Jakarta: EGC, 2014. p. 376-7.
27. Mescher AL. Histologi Dasar Junqueira Teks dan Atlas Edisi 14. 14th ed. Jakarta: EGC; 2017. p. 497-507.
28. School of Anatomy and Human Biology – The University of Western Australia. 2009. Blue-Histology – Male Reproductive System. [Cited 2019 Oktober 29], Available from: <http://www.lab.anhb.uwa.edu.au/mb140/CorePages/MaleRepro/malerepro.htm>.

29. Eroschenko VP. Atlas Histologi di Fiore dengan Korelasi Fungsional. 12th ed. Jakarta: EGC; 2015. p. 479-81.
30. Guyton AC, Hall JE. Buku Ajar Fisiologi Kedokteran Edisi Revisi 12. 12th ed. Jakarta: Saunders Elsevier; 2014. p. 973-5.
31. Sherwood L. Fisiologi Manusia. 8th International Ed. China: Brooks/Cole, Cengage Learning; 2013. p. 781-9.
32. Barrett KE. Buku Ajar Fisiologi Kedokteran Ganong. 24th ed. Jakarta: EGC, 2014. p. 449-58.
33. Ma ZF, Zhang H, Teh SS, Wang CW, Zhang Y, Hayford F, et al. Review Article Goji Berries as a Potential Natural Antioxidant Medicine: An Insight into Their Molecular Mechanisms of Action. *Oxid Med Cell Longev*. 2019; 2019: 1-9.
34. Chen J, Chao CT, Wei X. Gojiberry Breeding Current Status and Future Prospects. 2018. [Cited 2019 September 5], Available from: <https://www.intechopen.com/books/breeding-and-health-benefits-of-fruit-and-nut-crops/gojiberry-breeding-current-status-and-future-prospects>.
35. Kocyigit E, Sanlier N. A Review of composition and health effects of lycium barbarum. *Int J Chinese Med*. 2017; 1(1): 1-9.
36. ITIS. *Lycium barbarum* L. Taxonomy. [Cited 2019 September 1], Available from: https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=503599#null.
37. Kazbekovna SF, Arsenovna SM, Nikolaevich DO. Comparative micromorphological investigations of Red Goji Berries (*Lycium barbarum* L.) and Black Goji Berries (*Lycium ruthenicum* Murr.). *Pharmacog J*. 2018;10(5):911-5.
38. Uber Foods. 2017. Certified Organic Fresh Goji Berries. [Cited 2019 September 5], Available from: <http://www.uberfoods.gr/product/certified-organic-fresh-goji-berries>.
39. Rohilla A, Ali S. Alloxan Induced Diabetes: Mechanisms and Effects. 2012; 3(2): 819-23.
40. Irdalisa, Safrida, Khairil, Abdullah, Sabri M. Profil Kadar Glukosa Darah pada Tikus setelah Penyuntikan Aloksan sebagai Hewan Model Hiperglikemik. *J EduBio Trop*. 2015; 3(1): 25-28.
41. Hanafiah KA. Rancangan Percobaan Teori Aplikasi. Jakarta: Raja Grafindo; 2002.
42. Sharma VK, Kumar S, Patel HJ, Hugar S. Hypoglycemic Activity of *Ficus Glomerata* in Alloxan Induced Diabetic Rats. *Int J Pharm Sci Rev Res*. 2010; 1(2): 18-22.

43. Onyeagba RA, Ugbogu OC, Okeke CU, Iroakasi O. Studies on The Antimicrobial Effects of Garlic (*Allium sativum* Linn), Ginger (*Zingiber officinale* Roscoe) and Lime (*Citrus aurantifolia* Linn). *African J Biotechnol*. 2004; 3(10): 552–554.
44. Husni A, Purwanti D, Ustadi. Blood Glucose Level and Lipid Profile of Streptozotocin-Induced Diabetes Rats Treated with Sodium Alginate from *Sargassum crassifolium*. *J Biol Sci*. 2016; 16(3): 58–64.
45. Sakika KA, Hanwar D, Suhendi A, Trisharyanti I, Santoso B. Aktivitas Antidiabetes Ekstrak Etanol Rimpang Lempuyang Emprit (*Zingiber amaricans* BL) pada Tikus Putih yang Diinduksi Aloksan. 2014; 10-16.
46. Gage GJ, Kipke DR, Shain W. Whole Animal Perfusion Fixation for Rodents. *J Vis. Exp*. 2012; (65): 1–9.
47. Albert-Einstein-College of Medicine Institute for Animal Studies. Recommended Methods of Anesthesia, Analgesia, and Euthanasia for Laboratory Animal Species. 2014.
48. Wolfe D. Tissue Processing. Suvarna SK, Layton C, Bancroft JD (Eds). *Bancroft's Theory and practice of Histological Techniques* 8th ed. Elsevier; 2019. p.73-83.
49. Dey P. Basic and Advanced Laboratory Techniques in Histopathology and Cytology. Chandigarh: Springer International Publishing; 2018. p.72-9.
50. Fairudillah G, Nugrahalia M. Pengaruh Pemberian Puree Tomat (*Solanum esculentum* Mill) Terhadap Struktur dan Fungsi Testis Tikus Putih Galur Wistar (*Rattus norvegicus*) yang Telah Diinduksi MSG. *Jurnal Biosains*. 2012; 4(3): 131-7.
51. Mehraein F, Negahdar F. Morphometric Evaluation of Seminiferous Tubules in Aged Mice Testes after Melatonin Administration. *Cell Journal*. 2011; 13(1): 1–4.
52. Gabriel, Siau AF, Zakiah M. Pengaruh Paparan Monosodium Glutamat terhadap Gambaran Histologi Sel Sertoli pada Tikus Putih (*Rattus norvegicus*). *J cerebellum*. 2018; 4(2): 1079-88.