

## DAFTAR PUSTAKA

- Babu, L. and Joshi, A. (2018). Correlation of high-sensitivity C-reactive protein with blood sugar level in patients with type 2 diabetes, *National Journal of Physiology, Pharmacy and Pharmacology*, p. 1. doi:10.5455/njppp.2018.8.0726805082017.
- Badan Pusat Statistik. (2021). *Statistik Penduduk Lanjut Usia 2021*.
- Brutsaert, E.F. (2023). *Complications of diabetes mellitus - endocrine and metabolic disorders*, MSD Manual Professional Edition, Available at: <https://www.msdmanuals.com/professional/endocrine-and-metabolic-disorders/diabetes-mellitus-and-disorders-of-carbohydrate-metabolism/complications-of-diabetes-mellitus> (Accessed: 30 October 2023).
- Chandra, H.K. and Fatoni, A.Z. (2021). Peranan C-reactive protein (CRP) Pada Pasien sepsis di intensive care unit (ICU), *Journal of Anaesthesia and Pain*, 2(1), pp. 1–10. doi:10.21776/ub.jap.2021.002.01.01.
- Chia, C.W., Egan, J.M. and Ferrucci, L. (2018). Age-related changes in glucose metabolism, hyperglycemia, and cardiovascular risk, *Circulation Research*, 123(7), pp. 886–904. doi:10.1161/circresaha.118.312806.
- Daud, A., Sedek, S.S. and Shahadan, S.Z. (2019). Association between walking time spent and high sensitivity C-reactive protein level among obese women, *Enfermería Clínica*, 29, pp. 96–100. doi:10.1016/j.enfcli.2019.04.015.
- de Rekeneire N, Peila R, Ding J, Colbert LH, Visser M, Shorr RI, *et al.*. (2006). Diabetes, hyperglycemia, and inflammation in older individuals, *Diabetes Care*, 29(8), pp. 1902–1908. doi:10.2337/dc05-2327.
- Eizirik, D.L., Cardozo, A.K. and Cnop, M. (2007). The role for endoplasmic reticulum stress in diabetes mellitus, *Endocrine Reviews*, 29(1), pp. 42–61. doi:10.1210/er.2007-0015.
- Fitranti, D. Y., Syifarahmi, B., Ardaria, M., & Widyastuti, N. (2021). Kadar high sensitivity C-reactive protein Berkaitan Dengan Lingkar pinggang Pada Lansia, *Indonesian Journal of Human Nutrition*, 8(1), pp. 21–32. doi:10.21776/ub.ijhn.2021.008.01.3.
- Flint B, Tadi P. Physiology, Aging. [Updated 2023 Jan 4]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK556106/>

- Franceschi, C. and Campisi, J. (2014). Chronic inflammation (inflammaging) and its potential contribution to age-associated diseases, *The Journals of Gerontology Series A: Biological Sciences and Medical Sciences*, 69(Suppl 1). doi:10.1093/gerona/glu057.
- Frommer, L. and Kahaly, G.J. (2020). Type 1 diabetes and associated autoimmune diseases, *World Journal of Diabetes*, 11(11), pp. 527–539. doi:10.4239/wjd.v11.i11.527.
- Galicia-Garcia U, Benito-Vicente A, Jebari S, Larrea-Sebal A, Siddiqi H, Uribe KB, *et al.*, (2020). Pathophysiology of type 2 diabetes mellitus, *International Journal of Molecular Sciences*, 21(17), p. 6275. doi:10.3390/ijms21176275.
- Gardner, D.G., Shoback, D. and Greenspan, F.S. (2018). *Greenspan's basic and clinical endocrinology|basic and clinical endocrinology*. 10th edn. New York, NY, US: McGraw-Hill Education, pp. 612–615.
- Geer, E.B. and Shen, W. (2009). Gender differences in insulin resistance, body composition, and Energy Balance, *Gender Medicine*, 6, pp. 60–75. doi:10.1016/j.genm.2009.02.002.
- Ghule, A., Kamble, T. K., Talwar, D., Kumar, S., Acharya, S., Wanjari, A., Gaidhane, S. A., *et al.*, (2021). Association of Serum High Sensitivity C-Reactive Protein With Pre-diabetes in Rural Population: A Two-Year Cross-Sectional Study. *Cureus*, 13(10), e19088. <https://doi.org/10.7759/cureus.19088>
- Giunti, S., Barit, D. and Cooper, M.E. (2006). Mechanisms of diabetic nephropathy, *Hypertension*, 48(4), pp. 519–526. doi:10.1161/01.hyp.0000240331.32352.0c.
- Goyal R, Singhal M, Jialal I. Type 2 Diabetes. [Updated 2023 Jun 23]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK513253/>
- Halter, J. B., & Lee, P. G. (2017). *The Pathophysiology of Hyperglycemia in Older Adults: Clinical Considerations*. 453, 518. <https://doi.org/10.2337/dc16-1732>
- Kawamoto, R. *et al.* (2011). Association between fasting plasma glucose and high-sensitivity C-reactive protein: Gender differences in a Japanese community-dwelling population, *Cardiovascular Diabetology*, 10(1), p. 51. doi:10.1186/1475-2840-10-51.
- Kim, J.-K., Lee, A.-Y., Kang, J.-H., Yu, B.-Y., & Kim, S.-J. (2018). 39.1.42 • Korean. *J Fam Med*, 39, 42–50. <https://doi.org/10.4082/kjfm.2018.39.1.42>

- Lamos EM, Stein SA, Davis SN. Combination of glibenclamide-metformin hel for the treatment of type 2 diabetes mellitus. *Expert Opin Pharmacother*. 2012; 13(17):2545–54.
- Litwack, G. (2018). Glycolysis and gluconeogenesis, *Human Biochemistry*, pp. 183–198. doi:10.1016/b978-0-12-383864-3.00008-9.
- Li, ZH., Zhong, WF., Lv, YB., Kraus, VB., Gao, X., Chen, PL., Huang, QM., *et al.*. (2019). Associations of plasma high-sensitivity C-reactive protein concentrations with all-cause and cause-specific mortality among middle-aged and elderly individuals, *Immunity & Ageing*, 16(1). doi:10.1186/s12979-019-0168-5.
- Lucier J, Weinstock RS. Type 1 Diabetes. [Updated 2023 Mar 3]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK507713/>
- Mariadi, I.K., Koncoro, H. and Wibawa, I.D.N. (2020). *C-reactive protein and interleukin-6 correlated with resistin level in liver cirrhosis*, *The Indonesian Journal of Gastroenterology, Hepatology, and Digestive Endoscopy*. Available at: <https://www.ina-jghe.com/index.php/jghe/article/view/725/592> (Accessed: 30 October 2023).
- Micic, D. *et al.* (2010). *The effect of short-term metformin therapy on C-reactive protein and insulin sensitivity in newly diagnosed patients with type 2 diabetes mellitus*, *Endocrine Abstracts*. Available at: <https://www.endocrine-abstracts.org/ea/0022/ea0022p337> (Accessed: 18 March 2024).
- Nisa, H. (2016). *Peran C-Reactive Protein untuk Menimbulkan Risiko Penyakit*. Available at: [https://repository.uinjkt.ac.id/dspace/bitstream/123456789/32073/4/Hoirun%20Nisa--JMI%20Vol.13%20No.1%20%20tahun%202016\\_NoRestriction.pdf](https://repository.uinjkt.ac.id/dspace/bitstream/123456789/32073/4/Hoirun%20Nisa--JMI%20Vol.13%20No.1%20%20tahun%202016_NoRestriction.pdf) (Accessed: 28 October 2023).
- PERKENI. (2021). *Pedoman Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 Dewasa di Indonesia*.
- Purnichi, T. (2019). High-sensitivity C-reactive protein, possible biomarker for depression in elderly population, *Acta Endocrinologica (Bucharest)*, 15(2), pp. 215–220. doi:10.4183/aeb.2019.215.
- Regina, C. C., Mu'ti, A., & Fitriany, E. (2022). Diabetes Mellitus Type 2. *Verdure: Health Science Journal*, 3(1), 8–17. <https://www.ncbi.nlm.nih.gov/books/NBK513253/>

- Rena, G., Hardie, D.G. and Pearson, E.R. (2017). The mechanisms of action of metformin, *Diabetologia*, 60(9), pp. 1577–1585. doi:10.1007/s00125-017-4342-z.
- Rockwood, K. (2005). A global clinical measure of fitness and frailty in elderly people, *Canadian Medical Association Journal*, 173(5), pp. 489–495. doi:10.1503/cmaj.050051.
- Saisho, Y. (2015). Metformin and inflammation: Its potential beyond glucose-lowering effect, *Endocrine, Metabolic & Immune Disorders-Drug Targets*, 15(3), pp. 196–205. doi:10.2174/1871530315666150316124019.
- Sameer, A., Banday, M. and Nissar, S. (2021). Pathophysiology of diabetes: An overview, *Avicenna Journal of Medicine*, 10(4), pp. 174–188. doi:10.4103/ajm.ajm\_53\_20.
- Selvi, P. and Elizabeth, A.A. (2021). Effect of metformin on C-reactive protein in type 2 diabetes mellitus patients, *Journal of Pharmaceutical Research International*, pp. 53–61. doi:10.9734/jpri/2021/v33i23b31421.
- Shariatpanahi, M. V., Shariatpanahi, Z. V., Shahbazi, S., & Moshtaqi, M. (2012). Effect of fasting with two meals on BMI and inflammatory markers of metabolic syndrome. *Pakistan journal of biological sciences : PJBS*, 15(5), 255–258. <https://doi.org/10.3923/pjbs.2012.255.258>
- Sharma, K., Akre, S., Chakole, S., & Wanjari, M. B. (2022). Stress-induced diabetes: A Review, *Cureus* [Preprint]. doi:10.7759/cureus.29142.
- Shi, L., Tan, G. and Zhang, K. (2014). Relationship of the serum CRP level with the efficacy of metformin in the treatment of type 2 diabetes mellitus: A meta-analysis, *Journal of Clinical Laboratory Analysis*, 30(1), pp. 13–22. doi:10.1002/jcla.21803.
- Shih, Y.-L., Lin, Y. and Chen, J.-Y. (2022). The association between high-sensitivity C-reactive protein and metabolic syndrome in an elderly population aged 50 and older in a community receiving primary health care in Taiwan, *International Journal of Environmental Research and Public Health*, 19(20), p. 13111. doi:10.3390/ijerph192013111.
- Singh, S. and Bajorek, B. (2014). Defining “elderly” in clinical practice guidelines for pharmacotherapy, *Pharmacy Practice (Internet)*, 12(4), pp. 0–0. doi:10.4321/s1886-36552014000400007.
- Skyler, JS., Bakris, GL., Bonifacio, E., Darsow, T., Eckel, RH., Groop, L., Groop, PH., *et al.*. (2016). Differentiation of diabetes by pathophysiology, natural

history, and Prognosis, *Diabetes*, 66(2), pp. 241–255.  
doi:10.2337/db16-0806.

Strzelak A, Ratajczak A, Adamiec A, Feleszko W. (2018) Tobacco smoke induces and alters immune responses in the lung triggering inflammation, allergy, asthma and other lung diseases: A mechanistic review, *International Journal of Environmental Research and Public Health*, 15(5), p. 1033. doi:10.3390/ijerph15051033.

Suryavanshi, S.V. and Kulkarni, Y.A. (2017). NF- $\kappa$ B: A potential target in the management of vascular complications of diabetes., *Frontiers in Pharmacology*, 8. doi:10.3389/fphar.2017.00798.

Tarr JM, Kaul K, Chopra M, Kohner EM, Chibber R. (2013). Pathophysiology of diabetic retinopathy, *ISRN Ophthalmology*, 2013, pp. 1–13. doi:10.1155/2013/343560.

Tonstad, S. and Cowan, J.L. (2009). C-reactive protein as a predictor of disease in smokers and former smokers: A Review, *International Journal of Clinical Practice*, 63(11), pp. 1634–1641. doi:10.1111/j.1742-1241.2009.02179.x.

Velissaris, D. *et al.* (2017). C-reactive protein and frailty in the elderly: A literature review, *Journal of Clinical Medicine Research*, 9(6), pp. 461–465. doi:10.14740/jocmr2959w.

Yerevanian, A. and Soukas, A.A. (2020). Metformin: Mechanisms in human obesity and weight loss, *Current Obesity Reports*, 8(2), pp. 156–164. doi:10.1007/s13679-019-00335-3.

Yulistian, Refi (2021). *Pengaruh Usia dan Jenis Kelamin Terhadap Kadar High - Sensitivity C - Reactive Protein Serum Pada Tenaga Kesehatan dengan Tuberkulosis Laten dan Kontrol Sehat*. Skripsi thesis, Universitas Hasanuddin.

Zatterale F, Longo M, Naderi J, Raciti GA, Desiderio A, Miele C, Beguinot F. (2020). Chronic adipose tissue inflammation linking obesity to insulin resistance and type 2 diabetes, *Frontiers in Physiology*, 10. doi:10.3389/fphys.2019.01607.