

DAFTAR PUSTAKA

- Ageing and health*. (n.d.). Retrieved December 16, 2022, from <https://www.who.int/news-room/fact-sheets/detail/ageing-and-health>
- Akmal, M., & Wadhwa, R. (2022). Alpha Glucosidase Inhibitors. *NCBI Bookshelf*. <https://www.ncbi.nlm.nih.gov/books/NBK557848/>
- Behl, T., Goel, H., Kaur, I., Sudan, P., Sharma, M., Misri, R. W., Sihag, S. R., Patyal, P., & Medapati, S. (2014). US. 7 Junior Doctor, Alluri Seetha Rama Raju Academy of Medical Sciences. *Indo American Journal of Pharmaceutical Research*. www.iajpr.com
- Boden, G. (2008). Obesity and Free Fatty Acids. In *Endocrinology and Metabolism Clinics of North America* (Vol. 37, Issue 3, pp. 635–646). <https://doi.org/10.1016/j.ecl.2008.06.007>
- Buonacera, A., Stancanelli, B., Colaci, M., & Malatino, L. (2022). Neutrophil to Lymphocyte Ratio: An Emerging Marker of the Relationships between the Immune System and Diseases. In *International Journal of Molecular Sciences* (Vol. 23, Issue 7). MDPI. <https://doi.org/10.3390/ijms23073636>
- Costello, R. A., Nicolas, S., & Shivkumar, A. (2023). Sulfonylureas. *StatPearls*. <https://www.ncbi.nlm.nih.gov/books/NBK513225/>
- Da Silva, P. F. L., & Schumacher, B. (2021). Principles of the Molecular and Cellular Mechanisms of Aging. *Journal of Investigative Dermatology*, 141(4), 951–960. <https://doi.org/10.1016/J.JID.2020.11.018>
- Dinas Kesehatan D.I.Yogyakarta. 2022. Profil Dinas Kesehatan Provinsi D.I.Yogyakarta Tahun 2021. Yogyakarta : Dinas Kesehatan Provinsi D.I.Yogyakarta
- Dowey, R., Iqbal, A., Heller, S. R., Sabroe, I., & Prince, L. R. (2021). A Bittersweet Response to Infection in Diabetes; Targeting Neutrophils to Modify Inflammation and Improve Host Immunity. In *Frontiers in Immunology* (Vol. 12). Frontiers Media S.A. <https://doi.org/10.3389/fimmu.2021.678771>
- Ferrucci, L., & Fabbri, E. (2018). Inflammageing: chronic inflammation in ageing, cardiovascular disease, and frailty. In *Nature Reviews Cardiology* (Vol. 15, Issue 9, pp. 505–522). Nature Publishing Group. <https://doi.org/10.1038/s41569-018-0064-2>
- Fest, J., Ruiter, T. R., Groot Koerkamp, B., Rizopoulos, D., Ikram, M. A., van Eijck, C. H. J., & Stricker, B. H. (2019). The neutrophil-to-lymphocyte ratio is associated with mortality in the general population: The Rotterdam Study. *European Journal of Epidemiology*, 34(5), 463–470. <https://doi.org/10.1007/S10654-018-0472-Y>
- 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>
- Hi, M., Dae, P. •, Kim, H., Lee, E. K., Deuk, N., Dong, K. •, Im, S., Lee, J., Pal, B., Hae, Y. •, & Chung, Y. (n.d.). *Age-related inflammation and insulin resistance: a review of their intricate interdependency*. <https://doi.org/10.1007/s12272-014-0474-6>
- Jensen, E. J., Pedersen, B., Frederiksen, R., & Dahl, R. (1998). Prospective study on the effect of smoking and nicotine substitution on leucocyte blood counts

- and relation between blood leucocytes and lung function. *Thorax*, 53(9), 784–789. <https://doi.org/10.1136/thx.53.9.784>
- Kim, J. K., Lee, A. Y., Kang, J. H., Yu, B. Y., & Kim, S. J. (2018). Association of Fasting Glucose Level with Neutrophil-Lymphocyte Ratio Compared to Leukocyte Count and Serum C-Reactive Protein. *Korean Journal of Family Medicine*, 39(1), 42–50. <https://doi.org/10.4082/KJFM.2018.39.1.42>
- 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>
- Lee, S. H., Park, S. Y., & Choi, C. S. (2022). Insulin Resistance: From Mechanisms to Therapeutic Strategies. In *Diabetes and Metabolism Journal* (Vol. 46, Issue 1, pp. 15–37). Korean Diabetes Association. <https://doi.org/10.4093/DMJ.2021.0280>
- Meng, W., Zhang, C., Zhang, Q., Song, X., Lin, H., Zhang, D., Zhang, Y., Zhu, Z., Wu, S., Liu, Y., Yang, X., & Xue, F. (n.d.). *Association between Leukocyte and Metabolic Syndrome in Urban Han Chinese: A Longitudinal Cohort Study*. <https://doi.org/10.1371/journal.pone.0049875>
- Moro-García, M. A., Mayo, J. C., Sainz, R. M., & Alonso-Arias, R. (2018). Influence of inflammation in the process of T lymphocyte differentiation: Proliferative, metabolic, and oxidative changes. In *Frontiers in Immunology* (Vol. 9, Issue MAR). Frontiers Media S.A. <https://doi.org/10.3389/fimmu.2018.00339>
- Nakrani, M. N., Wineland, R. H., & Anjum, F. (2022). Physiology, Glucose Metabolism. *StatPearls*. <https://www.ncbi.nlm.nih.gov/books/NBK560599/>
- Omolara Owolabi, E., Goon, D. Ter, & Adeniyi, O. V. (n.d.). *Central obesity and normal-weight central obesity among adults attending healthcare facilities in Buffalo City Metropolitan Municipality, South Africa: a cross-sectional study*. <https://doi.org/10.1186/s41043-017-0133-x>
- Papaetis, G. S., Papakyriakou, P., & Panagiotou, T. N. (2015). Central obesity, type 2 diabetes and insulin: Exploring a pathway full of thorns. In *Archives of Medical Science* (Vol. 11, Issue 3, pp. 463–482). Termedia Publishing House Ltd. <https://doi.org/10.5114/aoms.2015.52350>
- Prattichizzo, F., de Nigris, V., Spiga, R., Mancuso, E., la Sala, L., Antonicelli, R., Testa, R., Procopio, A. D., Olivieri, F., & Ceriello, A. (2018). Inflammageing and metaflammation: The yin and yang of type 2 diabetes. *Ageing Research Reviews*, 41, 1–17. <https://doi.org/10.1016/J.ARR.2017.10.003>
- Saisho, Y. (2015). Send Orders for Reprints to reprints@benthamscience.ae Metformin and Inflammation: Its Potential Beyond Glucose-lowering Effect. In *Endocrine, Metabolic & Immune Disorders-Drug Targets* (Vol. 15).
- Stumvoll, M., Häring, H. U., & Matthaei, S. (2022). Metformin. *Type 2 Diabetes: Principles and Practice, Second Edition*, 107–120. <https://doi.org/10.3109/9780849379581-12>
- Young Chung, H., Hyun Kim, D., Kyeong Lee, E., Wung Chung, K., Chung, S., Lee, B., Seo, A. Y., Heun Chung, J., Suk Jung, Y., Im, E., Lee, J., Deuk Kim, N., Ja Choi, Y., Soon Im, D., & Pal Yu, B. (2018a). *Redefining Chronic Inflammation in Aging and Age-Related Diseases: Proposal of the Senoinflammation Concept*. <https://doi.org/10.14336/AD.2018.0324>

- Young Chung, H., Hyun Kim, D., Kyeong Lee, E., Wung Chung, K., Chung, S., Lee, B., Seo, A. Y., Heun Chung, J., Suk Jung, Y., Im, E., Lee, J., Deuk Kim, N., Ja Choi, Y., Soon Im, D., & Pal Yu, B. (2018b). *Redefining Chronic Inflammation in Aging and Age-Related Diseases: Proposal of the Senoinflammation Concept*. <https://doi.org/10.14336/AD.2018.0324>
- Yuan, T., Yang, T., Chen, H., Fu, D., Hu, Y., Wang, J., Yuan, Q., Yu, H., Xu, W., & Xie, X. (2019). New insights into oxidative stress and inflammation during diabetes mellitus-accelerated atherosclerosis. *Redox Biology*, 20, 247–260. <https://doi.org/10.1016/J.REDOX.2018.09.025>
- Yumun Namik Kemal Üniversitesi, G. (2014). *Neutrophil-to-lymphocyte ratio in diabetes mellitus patients with and without diabetic foot ulcer*. <https://www.researchgate.net/publication/281572767>
- Zahorec R. (2021). PREVIEW Neutrophil-to-lymphocyte ratio, past, present and future perspectives. *Science Citation Index Expanded and in Journal Citation Reports/Science Edition Bratisl Med J*, 122(7). https://doi.org/10.4149/BLL_2021_078